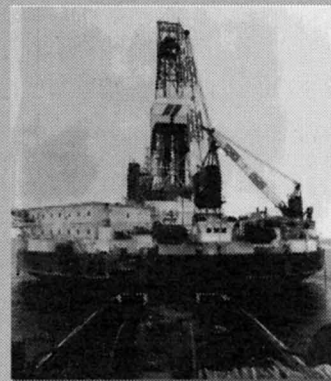
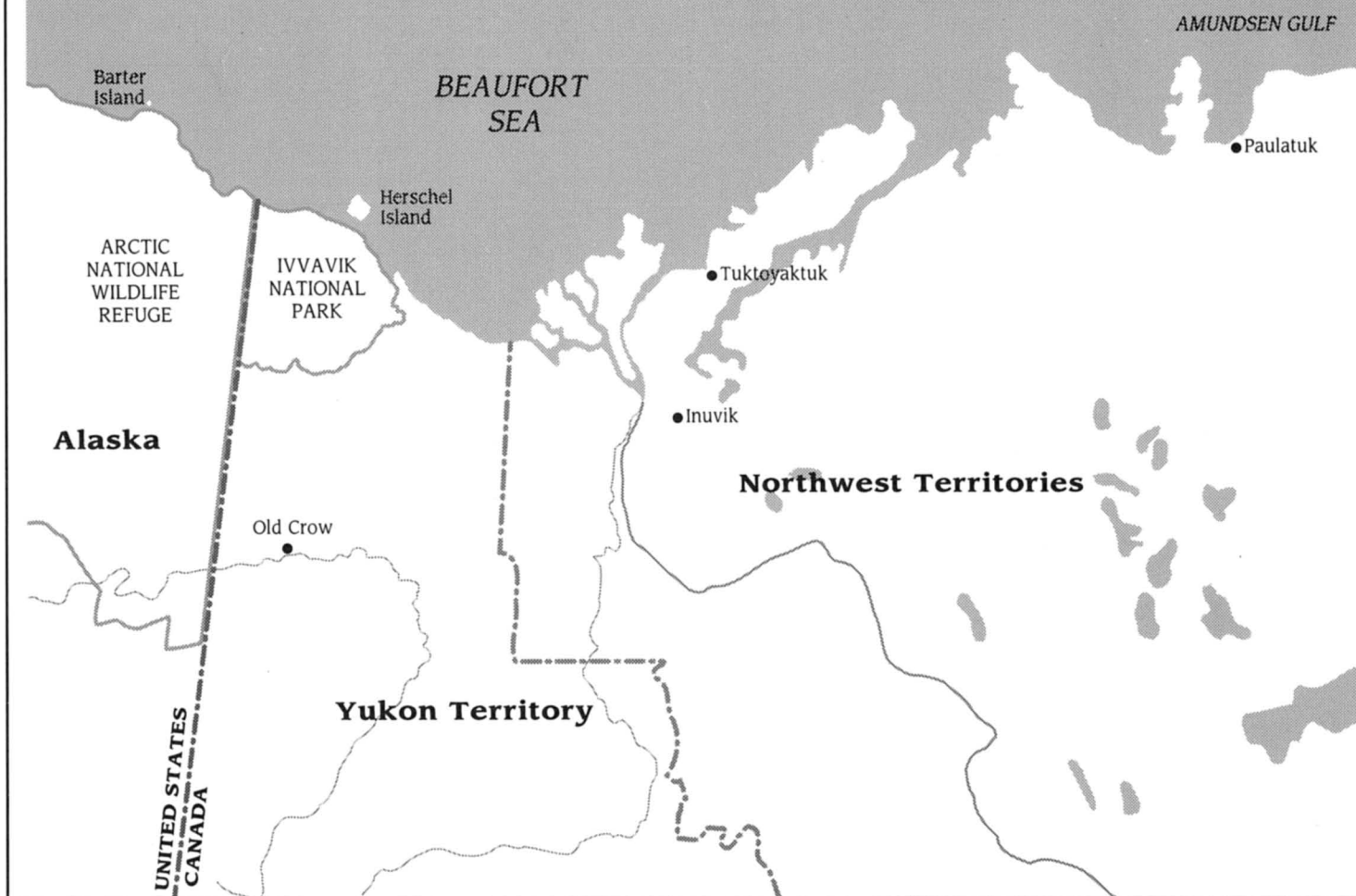


# BEAUFORT REGION BIBLIOGRAPHY:



## A YUKON PERSPECTIVE



**An Annotated Bibliography Of Sources Available In The Yukon Archives**  
*Compiled by Margaret D'Orsay, Angela Wheelock and Danielle Chasse*

**BEAUFORT REGION BIBLIOGRAPHY:**

**A YUKON PERSPECTIVE**

**An Annotated Bibliography of Sources Available  
In The Yukon Archives**

**Publication funded through the Northern Oil and Gas Action Plan  
(NOGAP)**

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## INTRODUCTION

This bibliography was funded under the federal government's Northern Oil and Gas Action Program (NOGAP). The original objectives of NOGAP were to establish and implement a federal/territorial government research and planning program to assist government and northern communities in preparing for northern hydrocarbon production.

As part of this program the Yukon Archives acquired and catalogued imprint material relating to northern hydrocarbon development and its impacts on the environment, people and politics of the Beaufort Sea Region. From this material the Archives in 1986 and 1988 compiled and published two annotated bibliographies entitled "Hydrocarbon Development: a Yukon Perspective". With this third volume, entitled "Beaufort Sea Region: a Yukon Perspective", the Archives has consolidated into one volume all published and unpublished imprint material acquired since 1988 on the region.

This volume, consisting of 598 citations, reflects the changes in social and scientific knowledge reflected in publications acquired since the early 1980's. Some of the citations were located close to press time and were included, without annotations, to make the bibliography as comprehensive as possible. All citations have been catalogued into the Libraries and Archives Division's public access catalogue which is accessible at the Whitehorse Public Library and community libraries throughout the Territory.

The four sections of the bibliography include information on the Environment/Land, Government/Politics, People, and Petroleum Industry/Technology. The main emphasis of the first two volumes was hydrocarbon development in the Beaufort Sea area. Recently there has been an increasing emphasis on understanding the impact of development on the environment and the people. This emphasis was identified in 1983 during the Beaufort Sea Environmental Assessment Panel (BEAP) hearings which reviewed hydrocarbon development and its impact on the socio-economic, environment and political concerns of this region.

Brenda Oziewicz initiated the acquisition of new material for the bibliography. It was compiled by Margaret D'Orsay and Angela Wheelock; annotated by Angela Wheelock and Danielle Chasse. Database input and word processing was done by LuAnne Kitchen.

# ENVIRONMENT AND LAND



**Birds:**

1. 639.978 Ale

Alexander, S., and J.S. Hawkings. *Breeding Bird Survey of Coastal Islands of the Outer Mackenzie Delta and Northern Tuktoyaktuk Peninsula, 1987.* CWS Technical Report Series. Edmonton, Alta: Canadian Wildlife Service, Western and Northern Region, 1988.

Surveys of colonial nesting birds were conducted on islands along the Tuktoyaktuk Peninsula in the Beaufort Sea. Includes tables and maps.

2. 598.41 Alex

Alexander, S., D.M. Ealey, and S.J. Barry. *Spring Migration of Eiders, Oldsquaws and Glaucous Gulls Along Offshore Leads of the Canadian Beaufort Sea.* CWS Technical Report Series, no. 56. Edmonton, Alberta: Canadian Wildlife Service, Western & Northern Region, 1988.

This report includes the results of aerial surveys conducted along offshore leads in the Beaufort Sea in the summer of 1986 and 1987. The conclusion reached indicates that migrating eiders and oldsquaws are particularly susceptible to natural and man-induced disasters. More information is needed on population, sizes, bird activities and distribution patterns and on disaster-specific mortality factors.

3. 639.978 Bar

Barry, T.W. *Seabirds of the Southeastern Beaufort Sea: Summary Report.* Beaufort Sea Technical Report, no. 3a. Victoria, BC: Beaufort Sea Project, 1976.

This report describes bird observations made in the southeastern Beaufort Sea in 1972, 1974, and 1975. Different survey methods were used including aerial surveys, radar, and visual observations.

4. PAM 1982-281

Bartels, R. and W.J. Zellhoefer. "Migratory Bird Use of the Coastal Lagoon System of the Beaufort Sea Coastline Within the Arctic National Wildlife Refuge, Alaska, 1981 and 1982." In *ANWR Coastal Plain Resource Assessment: 1982 Update Report Baseline Study of the Fish, Wildlife and Their Habitats*. Fairbanks, Alaska: US Fish and Wildlife Services, 1982.

5. PAM 1992-339

BP Exploration. *Eiders: Seasonal Visitors to Alaska's North Slope*. North Slope Wildlife Series. Anchorage, Alaska: BP Exploration, 1992.

This brochure describes the life cycle and migration of eiders that breed on the North Slope.

6. PAM ND-0736

BP Exploration. *Snow Geese and Brant: Seasonal Visitors to the North Slope Oilfields*. North Slope Wildlife Series. Anchorage, Alaska: BP Exploration, n.d.

This brochure describes the life cycle and migration patterns of the snow geese and the Brant that live on the North Slope.

7. Periodical

Dickson, D.L. "Breeding Biology of Red-Throated Loons in the Canadian Beaufort Sea Region" *Arctic* 46 , no. 1 (March 1993): 1-7.

This paper reports the results of a study of the breeding biology of the red-throated loon undertaken between 1985 to 1989 in five study areas on the Tuktoyaktuk Peninsula and the Yukon's North Slope. Data was collected on density and breeding success of adult loons and the mortality of eggs and chicks.

8. 639.978 Div

Divoky, G.J. *Fall Migration of Ross' Gull (Phodestathia Rosea) in Alaska Chukchi and Beaufort Seas.* Anchorage, AK: LGL Ecological Research Associates, 1988.

9. 598.291 632 7 John

Johnson, S., and D. Herter. *The Birds of the Beaufort Sea.* Anchorage, Alaska: BP Exploration, 1989.

The book provides a comprehensive introduction to the birds of the Beaufort Sea region, giving detailed information on distribution, range, migration, and breeding habits for each species.

10. Microfilm P 11, Reel #20

Johnson, S.R., and W.J. Richardson. "Waterbird Migration Near the Yukon and Alaskan Coast of the Beaufort Sea: II. Moulting Migration of Seaducks in Summer" *Arctic* 35, no. 2 (June 1982): 291-301.

This paper presents the results of studies of westward migrations of moulting sea ducks undertaken off the Yukon North Slope and near Prudhoe Bay, Alaska. Migration of oldsquaws, eiders, scoters, and other seaducks was studied during the summers of 1972, 1975, and 1977-78 using visual observations from the coast, aerial surveys, and radar.

11. PAM 1980-265

Mossop, D., and R. Hayes. *The Yukon Territory Gyrfalcon Harvest Experiment, 1974-80.* Whitehorse, Yukon: Yukon Wildlife Branch, 1980.

This report discusses an experimental program intended to harvest live gyrfalcon chicks on the Yukon North Slope. The procedures of the project are described and the effect this harvest had on local gyrfalcon populations.

12. 598 Ric

Richardson, J. *Bird Migration Along the Beaufort Sea Coast: Radar and Visual Observations in 1975.* Beaufort Sea Technical Report, no. 3. Ottawa, ON: Beaufort Sea Project, 1975.

This report summarizes bird migration data collected by visual observation and radar observation from the Distant Early Warning Station at Komakuk Beach in 1975. Data was collected on numbers and direction of migration as well as species composition of migrating birds where possible. Environmental data, such as meteorological data and ice conditions, were also gathered.

13. Microfilm P 11, Reel #19

Richardson, W.J., and S.R. Johnson. "Waterbird Migration Near the Yukon and Alaskan Coast of the Beaufort Sea. I: Timing Routes And Numbers in Spring" *Arctic* 34, no. 2 (1981): 108 - 121.

This paper presents the results of surveys of bird migration along the Beaufort Sea undertaken between 1975 and 1978. Radar, visual observations from the coast, and aerial surveys were all used to collect information on migrating waterbirds. Information is included on numbers, dates, direction, and species.

14. Periodical

Salter, R.E., M.A. Gollap, and S.R. Johnson. "Distribution and Abundance of Birds on the Arctic Coastal Plain of Northern Yukon and Adjacent Northwest Territories, 1971-1976" *Canadian Field-Naturalist* 94, no. 3 (July/Sept 1980): 219-238.

This article provides detailed information on birds of the Yukon's north coast. Information was collected on 122 species of birds, with at least 46 of these known to nest in the area. The study found that this area is the main fall staging region for post-breeding snow geese and is an important molting site for oldsquaws. The coast is also an important migration route for waterfowl and shorebirds.

15. 639.978 Sea

Searing, G.F. *Seabirds of the Southeastern Beaufort Sea: Aircraft and Group Observations in 1972 and 1974.* Beaufort Sea Technical Report, no. 36. Victoria, BC: Beaufort Sea Project, 1975.

Bird data gathered in the southeastern Beaufort Sea. Includes transect surveys for distribution and number of sea birds plus movements and migrations with species composition and associations noted.

16. PAM 1989-231

Sirois, J. , and L. Dickson. *The Avifauna of Toker Point, Tuktoyaktuk Penninsula, Northwest Territories, 1985-1987.* CWS Technical Report Series, no. 57. Yellowknife, NWT: Canadian Wildlife Service, 1989.

This report contains the results of bird surveys conducted at Toker Point, NWT, during the summers of 1985, 1986, and 1987. Information is included on breeding, species, bird migration, and population.

17. PAM 1987-271

Troy, D.M. *Birds of Prudhoe Bay and Vicinity.* 2nd ed. Anchorage, Alaska: Standard Alaska Production Company, 1987.

This booklet provides an introduction to the birds of the Alaska and Yukon North Slope with detailed descriptions of the more common species. Illustrated with colour photographs and maps.

18. PAM 1988-173

Yukon Territory. Dept. of Renewable Resources.  
*Non-Consumptive Wildlife Use on the Yukon North  
Slope.* Whitehorse, Yukon: Yukon Dept. Of  
Renewable Resources, 1988.

This report discusses bird watching on Herschel  
Island and the Yukon North Slope. The  
opportunities for bird watching are described and  
the potential damage this can cause to nesting  
birds. Recommendations are made for managing  
bird watching to minimize these impacts.



Climate and hydrology:

19. 551.460 1 Aag 1987

Aagaard, K., and S. Salo. *Beaufort Sea Mesoscale Circulation Study: Hydrography USCGC POLAR STAR Cruise October 1986*. Seattle, WA: Pacific Marine Environmental Laboratory, 1988.

This report presents data gathered during October 1986, in the Western Beaufort Sea. Samples of water were taken and analyzed for oxygen, salinity, nutrients, particulates, particulate carbon, chlorophyll and phytoplankton.

20. PAM 1989-228

Agnew, T., B. Eid and W. Skinner. "Beaufort Sea Wind/Wave- Storm Hindcasting." In *International Workshop on Wave Hindcasting and Forecasting (2nd: 1989: Vancouver, B.C.)*, 192-202a.

21. 551.48 Wat

Allan, R.B., and G.R. Mackenzie-Grieve. *Water Quality and Biological Survey of Five Streams in the Vicinity of Stokes Point Yukon-Beaufort Sea Coast*. Regional Program Report, no. 84-19. Whitehorse, Yukon: Environment Canada, 1984.

This report includes the results of a water quality assessment and biological survey of the Babbage, Trail, Crow, and Spring rivers on the Yukon North Slope. The diversity and overall biological conditions were noted and sediments were sampled and analyzed. This study was intended to produce a baseline inventory of data on rivers of the North Slope.

22. 536.32 Andr

Andreas, E. "The Refractive Index Structure Parameter, C<sub>2n</sub> For A Year Over the Frozen Beaufort Sea" *Radio Science* 24 , no. 5 (1989): 667 - 679.

23. 551.343 Eff

Arctec Newfoundland Ltd. *Effect of Sea Ice on Beaufort Sea Coastal Processes.* St. John's, NF: Arctec Newfoundland Ltd, 1987.

Investigations of the effects of sea ice on the Canadian Beaufort Sea shoreline found that sea ice limits open water and reduces waves, thus blocking or reducing sediment transport. Sea ice also affects sedimentation by depositing sediments or by moving them through scouring.

24. 551.343 Baker

Baker, D.N., and C.E. Mulder. *Ice Strength Indexer: Phase III.* Ottawa: Transportation Development Centre, 1990.

25. 551.460 1 Bak

Baker, G.C. *Electrical Conductivity, Freezing Temperature, and Salinity Relationships For Seawater and Sodium Chloride Solutions For the Salinity Range From 0 to Over 200 Ppt.* Fairbanks, AK: Geophysical Institute, University of Alaska, Fairbanks, 1987.

This paper reports the algorithms developed for the conversion of electrical conductivity to salinity for sea water and sodium chloride solutions. Conversions include salinity ranges from 0-212 parts per thousand (ppt) for the temperatures 15, 20 and 25 C for sea water.

26. 551.37 Stu

Berry, M.O. *A Study of Weather, Waves and Icing in the Beaufort Sea.* Beaufort Sea Technical Report, no. 21. Victoria, BC: Beaufort Sea Project, 1975.

The report discusses a variety of topics related to weather conditions in the Beaufort, including extreme winds, extreme wave hindcast studies, superstructure icing, and case studies of storms.

27. Pam 1988-171

Bhat, S.U. "Analysis For Splitting of Ice Floes During Summer Impact " *Cold Regions Science and Technology* 5, no. 1 (1988): 53-63.

This article describes methods for analyzing the impact of ice floes in the summer.

28. 551.46083 Bor

Bornhold, B.D. *Suspended Matter in the Southern Beaufort Sea*. Beaufort Sea Technical Report, no. 25b. Victoria, BC: Beaufort Sea Project, 1976.

29. Ref 016.551 384 Perm

Brennan, A. *Permafrost: A Bibliography*. 1978/82 - 1988/92 (3 vols). Boulder, Colo: World Data Center For Glaciology, 1983-1993.

Citations are indexed for the following topics: permafrost, ground ice, frozen soils and geocryology. Includes subject and author indexes.

30. 551.697 19 Nogap

Canada. Atmospheric Environment Service. *NOGAP Project C.17 Beaufort Sea Specialized Data Base: Report For 1987/88 Fiscal*. Ottawa, ON: Environment Canada, Atmospheric Environment Service, 1988.

This report summarizes the results of a three year project intended to increase the climatological data base for the Canadian Beaufort Sea. Data was collected at a series of NOGAP stations on pressure, temperature, relative humidity, wind speed, and wind direction. Includes charts and graphs.

31. 551.343 Cana

Canatec Consultants. *Beaufort Sea Ice Design Criteria: Acquisition of Data on EIF's*. Environmental Studies Research Funds Report, no. 115. Calgary, Alberta: Environmental Studies Research Funds, 1992.

Results of a project to develop an extreme ice features (EIF) data base for the Southern Beaufort Sea. The first section defines and describes extreme ice features and their possible impacts on oil and gas structures. Next, the report reviews current literature on extreme ice features and outlines parameters for a data base. Sources of data that can be used are described and the report summarizes the possibility that oil and gas structures will collide with extreme ice features. Recommendations are made for future data collection.

32. 551.63 Clo

Clodman, J., and F.B. Muller. *Real-Time Environmental Prediction System*. Beaufort Sea Technical Report, no. 20. Victoria, BC: Beaufort Sea Project, 1975.

The purpose of a real-time environmental prediction system is to provide accurate information about weather patterns and forecasts of ice floes, waves, surges, and other phenomenon to offshore drilling installations.

33. PAM 1975-297

Cooper, P.F. *Movement and Deformation of the Landfast Ice of the Southern Beaufort Sea*. Beaufort Sea Technical Report, no. 37. Victoria, BC: Beaufort Sea Project, 1975.

34. 551.468 719 3 Dav

Davies, K.F. *Mackenzie River Input to the Beaufort Sea*. Beaufort Sea Technical Report, no. 15. Victoria, BC: Beaufort Sea Project, 1975.

Distribution of river flow in the main channels of the Mackenzie River are provided as a percentage of total flow on a month-by-month basis. Suspended sediment transport, ice thickness, and water temperature in the Mackenzie Delta are also noted and discussed.

35. 551.470 22 Eid 1992

Eid, B.M., and V.J. Cardone. *Beaufort Sea Extreme Waves Study*. Environmental Studies Research Funds Report, no. 114. Calgary, Alta.: Environmental Studies Research Funds, 1992.

This report summarizes the results of a study intended to develop new and definitive estimates of the extreme wave climate in the Canadian Beaufort Sea, particularly areas with offshore exploration. The study used a hindcast approach which included collecting a data base from historical sources of meteorological, waves, and ice cover data and using this information to develop a model that could predict extreme waves.

36. 551.697 196 Fan

Fanaki, F., B. Martin, and J. Marks. *NOGAP Arctic Meteorological Tower*. Downsview, ON: Atmospheric Environment Service, 1986.

This report describes the installation of six temperature, wind speed, and wind direction sensors on the CBC television tower in Inuvik, Northwest Territories. The site, tower, and installation of the sensors are described in detail and a sample of the data collected is presented. This is the first phase in a project intended to assess the environmental impacts of air pollution associated with hydrocarbon development in the Beaufort Sea.

40. 363.739 22 Fana 1986

Fanaki, F., B. Martin, and J. Markes. *NOGAP Project C.19 Winter Field Study (February 1985) Inuvik, NWT*. 2 vols. Ottawa: Atmospheric Environment Services, 1986.

This study provides data from an initial attempt to determine the pollution potential on Inuvik, NWT during the winter. Measurements that were taken included vertical soundings for wind and temperature profiles, volume rise and dispersion, and measurements of mixing heights.

41. 551.46 Fis

Fissel, D.B., and H. Melling. *Interannual Variability of Oceanographic Conditions in the Southeastern Beaufort Sea*. Sidney, B. C.: Dept. Of Fisheries, Institute of Ocean Sciences, 1990.

This report examines data gathered in the Beaufort Sea between 1950-1987 to explain the variability of ocean conditions from year to year. Increased salinity and temperature coincided with reduced ice cover for most of the study area with the exception of the coastal area.

42. 551.343 091 632 Bors

G.A. Borstad Associates Ltd. *Catalogue of Geo-Referenced NOAA AVHRR Satellite Data of the Beaufort Sea, 1980-1991*. Canadian Contractor Report of Hydrography and Ocean Sciences, no. 42. Sidney, BC: Institute of Ocean Sciences, 1992.

This volume contains a catalogue of digital satellite images from the Beaufort Sea. The data comes from the Advanced Very High Resolution Radiometer (AVHRR) on board the National Oceanic and Atmospheric (NOAA) series weather satellites. These images show ice structure and movement, water temperature, cloud cover, land temperature and snow and ice coverage.

37. 551.697 196 Fana

Fanaki, F., J. Deavy, and B. Martin. *NOGAP Meteorological Tower Data Analysis*. Downsview, ON: Atmospheric Environment Service, 1987.

This report includes the results of the first year and a half of atmospheric data collected from the CBC television tower in Inuvik. Data was collected on temperature, wind speed, and wind direction.

38. 363.739 22 Fanak 1987

Fanaki, F., B. Martin, and J. Markes. *NOGAP Project C.19. Summer Field Study, July 1985*. 2 vols. Ottawa: Atmospheric Environment Services, 1987.

This study provides data from an initial attempt to determine the pollution potential on Inuvik and Tuktoyaktuk, NWT. Measurements which were taken over a two week period in the summer include vertical sounding of the atmosphere for wind and temperature profiles, continuous acoustic sounder measurements and the dispersion of an industrial plume.

39. 363.739 22 Fanaki

Fanaki, F., J. Dery, and B. Martin. *NOGAP Project C. 19 Radiation Measurements At Inuvik, NWT*. Ottawa: Atmospheric Environment Service, 1987.

This preliminary report contains radiation measurements collected as part of the C.19--Air Quality Field Study. Data are presented in tables that show one-hour averaged values of the incoming and reflected short wave radiation at Inuvik, NWT.

43. 551.468 7 Env

Garrison, G.R. *Environmental Measurements in the Beaufort Sea, Spring 1986*. Seattle, Washington: Applied Physics Laboratory, University of Washington, 1987.

This report contains data recorded between March 20 and May 2, 1986 at a camp located on an ice floe in the Beaufort Sea. The drift of the ice floe was calculated by using Nausat, a satellite navigation system. Temperature, floe rotation, salinity, meteorological data, water properties and underwater noise were also measured.

44. PAM 1991-191

Gow, A.J., and W.B. Tucker. *Physical and Dynamic Properties of Sea Ice in the Polar Oceans*. Hanover, NH: Cold Regions Research and Engineering Laboratory, 1991.

This paper presents the results of a study of the physical properties of sea ice and also reviews the current literature on sea ice.

45. 551.468 7 Gra

Grainger, E.H. *Biological Productivity of the Southern Beaufort Sea: The Physical-Chemical Environment and the Plankton*. Beaufort Sea Technical Report, no. 12a. Victoria, BC: Beaufort Sea Project, 1975.

This report examines the biological productivity of the southern Beaufort Sea and the influence the Mackenzie River has on this productivity. The waters in the Southern Beaufort Sea are highly modified by the Mackenzie River, affecting the salinity levels and biological productivity of this area, which is characterized by low productivity and has a very short food chain. The report concludes that pollutants and changes in the Mackenzie River output would greatly affect the productivity of this system and it is potentially very vulnerable to oil spills.



46. 387.54 Har

Harrington, M.G. *Environmental Data Collection Aboard USCGC Polar Sea: [1985].* 2 vols. Springfield, Vir: NTIS, 1987.

This report contains ship performance measurements and environmental data that are part of a larger study to assess the feasibility of year-round marine traffic in the Beaufort Sea.

47. 551.470 22

Henry, R.F. *Storm Surges. Beaufort Sea Technical Report, no. 19.* Victoria, B.C.: Beaufort Sea Project, 1975.

Numerical models were designed to predict surge levels between Herschel Island and Cape Bathurst on the Southern Beaufort Sea coast. These models were also developed to determine if surges would pose a threat to offshore drilling operations. The probable effects of storm surges on hydrocarbon development are also discussed and recommendations are made to minimize damage from surges.

48. 551.460 1 Her

Herlinveaux, R.H., and B.R. De Lange Boom. *The physical Oceanography of the South-Eastern Beaufort Sea.* Beaufort Sea Technical Report, no. 18. Victoria, BC: Beaufort Sea Project, 1975.

This report contains information on the physical oceanography of the Beaufort Sea. The purpose of this study is to establish baseline data on the physical oceanography of the Beaufort Sea which could assist in establishing operating guidelines for the oil and gas industry in the Beaufort.

49. 551.460 1 Seas 1990

Hopky, G.E., D.B. Chipczak, and M. Lawrence.  
*Seasonal Salinity, Temperature and Density Data  
For Tuktoyaktuk Harbour and Mason Bay, NWT, 1980  
to 1988.* Winnipeg, Manitoba: Department of  
Fisheries and Oceans, 1990.

This report contains data on salinity,  
temperature, and density (CTD) collected between  
1978 and 1988. All data was collected in, or  
very close to, two coastal bays located along the  
southeast coast of the Beaufort Sea in the  
Mackenzie River estuary: Tuktoyaktuk Harbour and  
Mason Bay.

50. 551.4701 Nea

Huggett, W.S. *Near Bottom Currents and Offshore  
Tides.* Beaufort Sea Technical Report, no. 16.  
Ottawa, ON: Beaufort Sea Project, 1975.

The objective of this report was to gain an  
understanding of the near bottom currents and  
offshore tides in the Southern Beaufort Sea.  
Measurements were taken both under the ice and in  
open water to assess the effects wind and ice  
have on currents and tides. Storm surges were  
also studied in the Mackenzie Delta Region.

51. 551.468 Arc vol. 1

Institute of Ocean Sciences (Sidney, B.C.).  
*Arctic Data Compilation and Appraisal. Vol. 1,  
Beaufort Sea: Physical Oceanography Temperature,  
Salinity, Currents and Water Levels.* Canadian  
Data Report on Hydrography and Ocean Sciences,  
no. 5. Sidney, BC: Institute of Ocean Sciences,  
1982.

Various aspects of the physical oceanography of  
the Beaufort Sea are described and information is  
provided on currents, temperature, salinity  
profiles, water levels, and drifter data (for  
measuring currents).

52. 551.468 Arc vol. 12

Institute of Ocean Sciences (Sidney, B.C.).  
*Arctic Data Compilation and Appraisal. Vol. 12, Beaufort Sea and Amundsen Gulf: Physical Oceanography--Temperature Salinity, Currents, Water Levels and Waves.* Canadian Data Report on Hydrography and Ocean Sciences, no. 5. Sidney, BC: Institute of Ocean Sciences, 1987.

This volume is a catalogue of physical oceanographic data collected between 1914 and 1986. Times and locations of measurements are listed and displayed graphically for temperature-salinity, current meter water-level, wave and drifter data.

53. 551.468 Arc vol. 2

Institute of Ocean Sciences (Sidney, B.C.).  
*Arctic Data Compilation and Appraisal. Vol. 2, Beaufort Sea: Chemical Oceanography.* Canadian Data Report on Hydrography and Ocean Sciences, no. 5. Sidney, BC: Institute of Ocean Sciences, 1982.

This report describes the chemical oceanography of the Beaufort Sea and includes data on dissolved oxygen, major and minor elements, nutrients, hydrocarbons, and other chemical substances.

54. 551.468 Arc vol. 7

Institute of Ocean Sciences (Sidney, B.C.).  
*Arctic Data Compilation and Appraisal. Vol. 7, Canada Basin-Arctic Ocean: Physical Oceanography--Temperature, Salinity, Current and Water Levels.* Canadian Data Report on Hydrography and Ocean Sciences, no. 5. Sidney, BC: Institute of Ocean Sciences, 1984.

This report is a catalogue of physical oceanographic data collected in the Canadian Basin, the Arctic Ocean and surrounding waters. Parameters such as temperature-salinity, current-meter water-level, and drifter data are listed and displayed graphically by time and location.

55. 551.460 1 NOG 1988

Institute of Ocean Sciences (Sidney, B.C.). *Data Report: NOGAP B.6; Beaufort Sea Oceanography, September, 1986.* Canadian Data Report of Hydrology and Ocean Sciences, no. 58. Sidney, BC: Institute of Ocean Sciences, 1988.

This report contains the results of oceanographic studies funded by the NOGAP B.6 project to investigate hydrocarbon pathways and primary productivity of the waters overlying the MacKenzie Shelf in the Beaufort Sea. The results reported include data on salinity, temperatures, nutrients, oxygen isotopes, total suspended solids, particulate organic carbon and nitrogen and bacteria in Beaufort Sea water.

56. 551.460 1 Nog 1992

Institute of Ocean Sciences (Sidney, B.C.). *NOGAP B.6, Physical and Chemical Data Collected in the Beaufort Sea and Mackenzie River Delta, April-May 1991.* Canadian Data Report of Hydrography and Ocean Sciences, no. 104. Sidney, BC: Institute of Ocean Sciences, 1992.

This report describes the results of an ice-based spring water sampling program conducted in the Beaufort Sea in April-May 1991. Water properties were measured from Herschel Island in the west to Cape Bathurst in the east.

57. 551.460 1 NOG

Institute of Ocean Sciences (Sidney, B.C.). *NOGAP B.6; Physical Data Collected in the Beaufort Sea, September 1986.* Canadian Data Report of Hydrography and Ocean Sciences, no. 59. Sidney, BC: Institute of Ocean Sciences, 1988.

This report describes data collected in 1986 on the Beaufort Sea as part of the NOGAP B.6 program to investigate hydrocarbon pathways and primary productivity of the MacKenzie Shelf in the Beaufort Sea. Data was gathered on temperature, salinity, and the freezing point of Beaufort Sea water.

58. 551.460 1 NOG vol. 1

Institute of Ocean Sciences (Sidney, B.C.).  
*NOGAP B.6; Vol. 1: Beaufort Sea Current  
Measurements, March-August 1987.* Canadian Data  
Report of Hydrography and Ocean Sciences, no. 60.  
Sidney, BC: Institute of Ocean Sciences, 1988.

Data on currents, salinity, temperature and light  
transmission are presented in graphs and tables.

59. 551.460 1 NOG vol. 2

Institute of Ocean Sciences (Sidney, B.C.).  
*NOGAP B.6; Vol. 2: Physical Data Collected in  
the Beaufort Sea, March-June 1987.* Canadian  
Data Report of Hydrography and Ocean Sciences,  
no. 60. Sidney, BC: Institute of Ocean Sciences,  
1988.

The report describes the results of a study  
undertaken from March to June 1987 as part of the  
NOGAP B.6 program. The study's major objective  
was to determine hydrocarbon pathways and primary  
productivity of the Beaufort Sea over the  
Beaufort Shelf. Parameters measured include  
temperature, salinity, density, departure from  
freezing point of the Beaufort Sea water, and the  
dynamic height of waves. Measurements from  
nearshore were also made to investigate the  
Mackenzie plume structure under the ice.

60. 551.460 1 NOG vol. 3

Institute of Ocean Sciences (Sidney, B.C.).  
*NOGAP B.6; Vol. 3: Beaufort Sea Current  
Measurements, September 1987-March 1988.*  
Canadian Data Report of Hydrography and Ocean  
Sciences, no. 60. Sidney, BC: Institute of Ocean  
Sciences, 1988.

This report is part of a larger study to measure  
the transport of hydrocarbons and the primary  
productivity of the waters of the Beaufort Shelf.  
Data on currents, salinity, temperature and light  
transmission are presented in graphic or tabular  
form.

61. 551.460 1 NOG vol. 4

Institute of Ocean Sciences (Sidney, B.C.).  
*NOGAP B.6; Vol. 4: Chemical Data Collected in the Beaufort Sea Summer 1987.* Canadian Data Report of Hydrography and Ocean Sciences, no. 60. Sidney, BC: Institute of Ocean Sciences, 1988.

This report contains the chemical data collected in the summer of 1987 as part of the NOGAP B.6 project investigating the hydrocarbon pathways and primary productivity of the Mackenzie shelf in the Beaufort Sea. Data was collected on salinity, temperature, dissolved oxygen, nutrients and chemicals.

62. 551.460 1 NOG vol. 5

Institute of Ocean Sciences (Sidney, B.C.).  
*NOGAP B.6; Vol. 5: Chemical Data Collected in the Beaufort Sea and Mackenzie River Delta, March-July 1987.* Canadian Data Report of Hydrography and Ocean Sciences, no. 60. Sidney, BC: Institute of Ocean Sciences, 1988.

This report contains chemical data collected in the MacKenzie River Delta and the Beaufort Sea from March - July 1987 as part of a NOGAP study on hydrocarbon pathways and primary productivity of the waters overlying the MacKenzie Shelf. Chemical measurements collected include salinity, dissolved oxygen content, and nutrient concentrations as well as total suspended solids, particulate organic carbon and nitrogen.

63. 551.460 1 NOG vol. 6

Institute of Ocean Sciences (Sidney, B.C.).  
*NOGAP B.6; Vol. 6: Physical Data Collected in the Beaufort Sea, Summer, 1987.* Canadian Data Report of Hydrography and Ocean Sciences, no. 60. Sidney, BC: Institute of Ocean Sciences, 1988.

This report is part of a larger study to investigate hydrocarbon transport and primary productivity of the Beaufort Shelf. Data on currents, salinity, temperature and light transmission are presented in graphs and tables.

64. 551.460 1 NOG vol. 8

Institute of Ocean Sciences (Sidney, B.C.).  
*NOGAP B.6; Vol. 8: Sediment Trap Data Collected  
in the Beaufort Sea, March 1987-March 1988.*  
Canadian Data Report of Hydrography and Ocean  
Sciences, no. 60. Sidney, B.C.: Institute of  
Ocean Sciences, 1991.

65. 551.460 1 NOG vol. 7

Institute of Ocean Sciences (Sidney, B.C.).  
*NOGAP B.6; Vol 7: Hydrocarbon Determinations;  
Mackenzie River and Beaufort Sea Shoreline Peat  
Samples.* Canadian Data Report of Hydrography  
and Ocean Sciences, no. 60. Sidney, BC:  
Institute of Ocean Sciences, 1990.

This technical report contains the sampling  
method and analysis of water, shoreline, sediment  
and atmospheric samples collected on the  
Mackenzie Delta and Beaufort Sea shoreline during  
the 1987 field season. This study is part of the  
NOGAP B.6 project 6 study of the transport of  
hydrocarbons and the primary productivity of the  
Beaufort Sea.

66. 551.460 1 NOG vol. 9

Institute of Ocean Sciences (Sidney, B.C.).  
*NOGAP B.6; Volume 9: Hydrocarbon Determinations;  
Mackenzie River and Beaufort Sea.* Canadian Data  
Report of Hydrography and Ocean Sciences, no. 60.  
Sidney, BC: Institute of Ocean Sciences, 1992.

67. PAM 1990-235

Jezek, K.C., T.K. Stanton, and A.J. Gow.  
"Influence of Environmental Conditions on  
Acoustical Properties of Sea Ice" *Journal of  
Acoustical Society of America* 88 , no. 4  
(October 1990): 1903-1912.

68. 551.343 Sea 1988

Kempema, E.W., E. Reimnitz and P.W. Barnes.  
"Salt-Water Anchor Ice Formation: Observations  
From the Alaskan Beaufort Sea and Flume  
Experiments." In *Sea Ice Properties and  
Processes: Proceedings of the W.F. Weeks Sea Ice  
Symposium*, 114-116. Hanover, NH: Cold Regions  
Research and Engineering Laboratory , 1990.

This article describes anchor ice discovered in  
shallow areas of the Alaskan Beaufort.

69. 620.416 2 Port 1988 vol. 3

Kozo, T.L. "Mesoscale Effects on Wind  
Velocities, Ocean Currents and Sea Ice Drift in  
the Beaufort Sea Coastal Ice Zone." In *Port and  
Ocean Engineering Under Arctic Conditions, Vol.  
III*, 183-200. Fairbanks, AK: Geophysical  
Institute, University of Alaska, Fairbanks ,  
1988.

70. Ref 551.343 091 632 Canad

Le Drew, E., D. Barber, T. Agnew, and D. Dunlop.  
*Canadian Sea Ice Atlas From Microwave Remotely  
Sensed Imagery: July 1987 to June 1990*. Ottawa,  
ON: Minister of Supply and Services Canada,  
1993.

This atlas maps changes in the polar ice cover in  
the Arctic over a four year period by presenting  
a series of sea ice maps for the northern  
hemisphere that are based on data collected from  
passive microwave sensors. Information is  
included on the different types of sea ice and on  
the way in which sea ice, the atmosphere, and the  
ocean are connected in a constantly changing  
system in the Arctic. Illustrated with  
explanatory drawings, colour maps.



71. PAM 1973-195

Lewis, C.P. and B.C. McDonald. "Rivers of the Yukon North Slope." In *Fluvial Processes and Sedimentation: Proceedings of Hydrology Symposium, University of Alaska, 1973*. Edmonton, Alta: Subcommittee on Hydrology, Associate Committee on Geodesy and Geophysics, 1973.

This paper provides a general overview of rivers of the Yukon North Slope which are characterized according to the type of processes and morphology they show. Information is included on the Malcolm, Firth, Babbage, Running, Blow, and Big Fish rivers.

72. 620.416 2 Port 1988 vol. 3

Lipoma, P. "Automated Weather Station Drift in the Alaskan Beaufort Sea Coastal Ice Zone." In *Port and Ocean Engineering Under Arctic Conditions, Vol. 3*, 301-310. Fairbanks, AK: Geophysical Institute, University of Alaska, Fairbanks, 1988.

73. PAM 1989-180

MacDonald, R.W., and E. Carmack. "Composition and Modification of Water Masses in the Mackenzie Shelf Estuary" *Journal of Geophysical Research* 94, no. C12 (December 15, 1989): 18057- 18070.

This technical article describes the composition and behaviour of fresh and salt water masses in the Mackenzie Delta.

74. 551.460 1 Oce 1991

MacDonald, R.W., D. Sieberg, and R. Pearson  
*Oceanographic Data Collected From the Henry  
Larsen in the Beaufort Sea, September 1991.*  
Canadian Data Report of Hydrography and Ocean  
Sciences, no. 112. Sidney, BC: Institute of  
Ocean Sciences, 1992.

This report describes the results of  
oceanographic surveys conducted in the Beaufort  
Sea from the Henry Larsen in September 1991.  
Measurements collected on salinity, temperature,  
nutrients, CTD data.

75. Pam 1991-202

MacDonald, R.W., and E. Carmack. "The Role of  
Large Scale Under Ice Topography in Separating  
Estuary and Ocean on an Arctic Shelf"  
*Atmospheric Ocean* 29 , no. 1 (1991): 37-53.

This report examines the difference in salinity,  
oxygen concentration and isotope of water of the  
Mackenzie Shelf as a result of the under-ice  
topography. Inshore, the water and ice are  
primarily formed from fresh water from the  
Mackenzie river. Past the ridge system of the  
ice, the water is subject to brine enhancement  
due to the rejection of salt in its formation of  
pack ice.

76. 551.460 1 Oce

MacDonald, R.W. *Oceanographic Data Collected  
From the Henry Larsen in the Beaufort Sea.*  
Canadian Data Report of Hydrography and Ocean  
Sciences , no. 97 & 112. Sidney, BC: Institute  
of Ocean Sciences, 1991-1992.

The reports contain the results of water samples  
collected in the Beaufort Sea in September 1990  
and 1991. Measurements were taken for salinity,  
temperature, nutrients, dissolved oxygen and CTD  
data.

77. 551.46 Oce

MacDonald, R.W. *Oceanographic Data Collected From the Sir John Franklin in the Beaufort Sea, September 1989.* Canadian Data Report of Hydrography and Ocean Sciences, no. 80. Sidney, BC: Institute of Ocean Sciences, Fisheries and Oceans Canada, 1989.

This report was part of a larger study to investigate hydrocarbon transport and primary productivity of the Beaufort Sea. Data reported here include salinity, temperature, nutrients, dissolved oxygen and chlorophyll a concentrations as well as current temperature - depth readings.

78. PAM 1989-230

MacLaren Plansearch Ltd. *Hindcasting Extreme Beaufort Sea Storms.* Canadian Climate Centre Report, no. 89-12. Downsview, ON: Atmospheric Environment Service, 1989.

79. 551.478 Mac

MacNeill, M.R., and J.F. Garrett. *Open Water Surface Currents in the Southern Beaufort Sea.* Beaufort Sea Technical Report, no. 17. Victoria, BC: Beaufort Sea Project, 1975.

Special devices called drogues (floating buoys with special instrumentation) were used to track surface currents during the open water seasons of 1974 and 1975. Data from both seasons indicate that surface currents are influenced very heavily by wind.

80. 620.416 32 Int vol. 2

Marcellus, R.W. and D.R. Roth. "Comparison of Canadian and Alaskan Beaufort Sea Ice Scour Depth Data and Analysis Methodologies." In *11th International Conference on Port and Ocean Engineering Under Arctic Conditions (POAC 91), Proceedings, Vol. 2, 1004-1017*. St. John's, NF: Ocean Engineering Research Centre, 1991.

Due to differences in scour depth distributions and scour parameter for data collected by American and Canadian investigators a data exchange was arranged between Gulf Canada Resources (GCRL) and the US Geological Survey (USGS). The two data sets were found to be similar when USGS analysis methodology was applied to the Canadian data.

81. 620.416 2 Int 1992 vol. 4

Marcellus, R.W., T.B. Morrison and M.L. Fernandez. "An Illustration of Theoretical and Empirical Errors and the Effect of the Resolution of the Raw Data on the Analysis of Ice Scour Depths in the Beaufort Sea." In *International Conference in Offshore Mechanics and Arctic Engineering, Calgary, Alta., Proceedings, Vol. 4, 21-25*.

This article describes theoretical and empirical problems that can occur when analyzing data on ice scouring in the Beaufort Sea.

82. 551.343 Mar

Markham, W.E. *Ice Climatology of the Beaufort Sea*. Beaufort Sea Technical Report, no. 26. Victoria, BC: Beaufort Sea Project, 1975.

The first study describes the variation of ice concentration according to time of the year for six regions, based on twenty years of historical ice data. The second study describes the motion of individual ice floes in relation to wind direction. The third study describes a reasonably accurate method for predicting features of the northward retreat of the polar pack ice in the Beaufort Sea. The fourth study examines the size of ice floes near the edge of the polar pack.

83. 551.343 Mar

Marko, J.R. *Satellite Observations of the Beaufort Sea Ice Cover*. Beaufort Sea Technical Report, no. 34. Victoria, BC: Beaufort Sea Project, 1975.

This report contains data on Beaufort Sea ice collected from March to October, 1973 to 1975. NOAA and ERTS (Landsat) satellites were used to document seasonal trends in landfast, transition, and gyral pack ice.

84. Periodical

Marsh, P., and T. Schmidt. "Influence of a Beaufort Sea Storm Surge on Channel Levels in the Mackenzie Delta" *Arctic* 46, no. 1 (March 1993): 35-41.

This article describes how storm surges in the Beaufort Sea effect water levels in the Mackenzie Delta. Water levels in the delta were observed after a storm surge that occurred in September 1985 and it was found that levels rose more than a meter in the outer delta. Further research is recommended to determine how flooding and storm surges effect water levels in the Delta.

85. 551.343 Sea 1988

Meese, D.A. "The Chemical and Structural Properties of Sea Ice in the Southern Beaufort Sea." In *Sea Ice Properties and Processes: Proceedings of the W.F. Weeks Sea Ice Symposium*, 32-35. Hanover, N. H.: Cold Regions Research and Engineering Laboratory, 1990.

This paper describes the chemistry and structural properties of Beaufort Sea ice. Chemical and structural profiles were determined for ten first-year and ten multi-year cores collected in the Beaufort Sea during spring of 1986 and 1987.

86. 551.343 Mee

Meese, D.A. *The Chemical and Structural Properties of Sea Ice in the Southern Beaufort Sea*. Hanover, NH: Cold Regions Research and Engineering Laboratory, 1989.

87. 551.468 Mil

Miller, B.E. *Observation and Inversion of Seismo-Acoustic Waves in a Complex Arctic Ice Environment*. Boston, Massachusetts: Institute of Technology, 1990.

This report examines the scattering properties of sound through complex ice in the Arctic to determine the source of sound from under the ice for defense capabilities.

88. PAM 1988-170

Murat, J.R., and Y. Lemoigne. "Study of the Ice Cover in Igloolik Bay" *Cold Regions Science and Technology* 15 , no. 3 (1988): 239-249.

89. 621.367 8 Int 1988 vol. 1

Partington, K.C. "Analysis of Seasat SAR Sea-Ice Data From the Beaufort Sea." In *IGARSS' 88: Remote Sensing: Moving Towards the 21st Century* Springfield, Virginia: National Technical Information Service , 1988.

This article describes remote sensing methods used to collect information on ice in the Beaufort Sea and analyzes the information that was collected.

90. 551.342 Stu

Pilkington and Associates. *A Study of the Occurrence of Strudel Scours in the Canadian Beaufort Sea*. Ottawa, ON: Geological Survey of Canada, 1989.

This study investigates the possibility that strudel scours (holes in the sediments created by water draining off ice) may occur in the Canadian Beaufort. Strudel scours could seriously undermine a pipeline foundation or expose buried pipelines. This study recommends that surveys for scours be conducted at break-up because the scours could be filled in with sediment very quickly afterwards.

91. 551.353 Pin

Pinchin, B.M., and R.B. Nairn. *Beaufort Sea Coastal Sediment Study: Evaluation of Inshore Wave Climate and Coastal Sediment Transport Techniques At King Point, Yukon*. Toronto, ON: Keith Philpott Consulting Ltd., 1987.

This study was intended to examine several phenomenon related to sediment transport at King Point, Yukon. Sufficient data was collected to examine the wave hindcasting process over a moderate four day storm, increasing the understanding of wave generation at King Point.

92. 551.343 Dis

Ramseir, R.O., M.R. Vant, and L.D. Arsenault. *Distribution of Sea Ice Thickness in the Beaufort Sea*. Beaufort Sea Technical Report, no. 30. Victoria, BC: Beaufort Sea Project, 1975.

This report investigates methods of determining sea ice thickness using remote sensing. Microwave imagery was used to map distribution of multi-year and first-year ice by month for the entire Beaufort Sea.

93. PAM 1987-270

Reimnitz, E., and P.W. Barnes. *Evidence For Sea-Ice Impact on Icy Reef, Beaufort Sea Coast. Geologic Studies in Alaska By the US Geological Survey During 1987* (US Geological Survey Circular, 1016), 1987.

94. 551.697 19 Rip

Ripley, E.A. *Study of the Arctic Heat Sink*. Canadian Climate Centre Report, no. 91-5. Saskatoon, SK: National Hydrology Research Center, 1991.

The present study focuses on the Arctic heat sink (AHS) that loses heat by radiation, and acts as a sink for the surplus radiant energy transported from the tropics by general circulation. Identification of factors to be used in defining the AHS include ice and snow cover, surface temperature and upper-air data, clouds, sea-surface temperature and soil moisture. Includes charts and maps.

95. 620.416 2 Port 1988

Sackinger, W.M., and M.O. Jeffries. *Port and Ocean Engineering Under Arctic Conditions*. 3 vols. Fairbanks, Alaska: Geophysical Institute, University of Alaska, Fairbanks, 1988.

This set contains the proceedings of the ninth International Conference on Port and Ocean Engineering under Arctic Conditions held in Fairbanks, Alaska in 1987. Papers are included on sea ice properties, remote sensing, ice dynamics, icebreaking vessels, industrial noise, offshore structures and climate.



96. 551.343 Sayed

Sayed, M. , and R.M.W. Frederking. "Measurements of Ridge Sails in the Beaufort Sea" *Canadian Journal of Civil Engineering* 16, no. 1 (1989): 16-21.

Ice pressure ridges were surveyed and measured in the southern Beaufort Sea in 1986. Cross-section profiles, ice-block dimensions, geographical distribution and longitudinal changes are presented for review.

97. 551.343 Sea 1988

Serreze, M.C., R.G. Barry and A.S. McLaren. "Reversals of the Beaufort Gyre Sea Ice Circulation and Effects on Ice Concentration in the Canada Basin." In *Sea Ice Properties and Processes: Proceedings of the W.F. Weeks Sea Ice Symposium*, 185-188. Hanover, N.H.: Cold Regions Research and Engineering Laboratory , 1990.

This article describes seasonal variations in the Beaufort Sea Gyre, an influential clockwise sea ice circulation. These variations create open water areas that may have important climatic and oceanographic implications.

98. 620.416 32 Int 1985 vol. 1

Spedding, L.G. and J.R. Hawkins. "A Comparison of the Effects of Natural Meteorological Conditions and Artificial Islands on Regional Ice Conditions in the Beaufort Sea." In *International Conference in Port & Ocean Engineering Under Arctic Conditions (POAC 85): Proceedings*, vol. 1: 305-316. Horsholm, Denmark: Danish Hydraulic Institute, 1985.

This paper examines the question of whether artificial islands constructed for drilling purposes have an effect on ice conditions in the Beaufort Sea. Specific concerns were at whether the islands cause seaward growth of landfast ice, more extensive ridging at the extremities, and delay break-up in the spring. The conclusion indicates a combination of seasonal meteorological parameters and regional ice conditions were responsible for the changes in landfast ice growth.

99. 551.343 Wad

Wadhams, P. *Sea Ice Morphology in the Beaufort Sea*. Beaufort Sea Technical Report, no. 36. Victoria, BC: Beaufort Sea Project, 1975.

This report describes the distribution and characteristics of ice in the Beaufort Sea. The report also discusses the probable behaviour of oil under ice in the event of an oil well blowout.

100. 551.468 7 Env

Wen, T. *Environmental Measurements in the Beaufort Sea, Spring 1988*. Seattle, Washington: Applied Physics Laboratory, University of Washington, 1989.

This report summarizes environmental data collected in March and April, 1988 at an ice camp in the Beaufort Sea, 350 kilometres north of Prudhoe Bay, Alaska. The measurements included data on weather, floe drifts, ice properties, and underwater noise.

101. 547.01 Whi

Whitehouse, B.G. *Organic Carbon and F1 Hydrocarbons in the Colloidal Fraction: Analysis of Data Obtained From the Mackenzie River and Beaufort Sea: Final Report*. Halifax, NS: B.G. Whitehouse, 1988.

102. 551.46 Bas

Wong, C.S. *Baseline Data on Chemical Oceanography in the Southern Beaufort Sea, 1974-5*. Beaufort Sea Technical Report, no. 14. Victoria, BC: Beaufort Sea Project, 1975?

Baseline oceanographic data collected in the southern Beaufort Sea in 1974 and 1975. Include concentrations of reactive nutrients (silicate, nitrate and phosphate), dissolved oxygen, salinity and temperature. The purpose of this report was to establish pre-development levels of the different parameters studied to assess any changes that occur as a result of hydrocarbon development.

103. PAM 1991-051

Yunker, M.B., R.W. MacDonald, and B.R. Fowler.  
"Geochemistry and Fluxes of Hydrocarbons to the  
Beaufort Sea Shelf: A Multivariate Comparison of  
Fluvial Inputs and Coastal Erosion of Peat Using  
Principal Components Analysis" *Geochimica Et  
Cosmochimica Acta* 55 (1991): 255-273.

**Environmental impacts:**

104. 551.468 7 Bea vol. 14

Beaufort Sea Environmental Assessment Panel.  
*Beaufort Sea Environmental Assessment Panel  
Submissions, No. 14, Monitoring, 1983.*

This volume contains submissions to the Beaufort Sea Environmental Assessment Panel on monitoring the impact of oil and gas development in the Beaufort. Information is included on monitoring socio-economic impacts, raptor and fish populations, and permafrost.

105. 551.468 7 Bea vol. 15

Beaufort Sea Environmental Assessment Panel.  
*Beaufort Sea Environmental Assessment Panel  
Submissions, No. 15, Comprehensive Statements,  
Opening & Closing Remarks, Recommendations, 1983.*

This volume includes submissions to the Beaufort Sea Environmental Assessment Panel dealing with current and future oil and gas development in the Beaufort, with emphasis on environmental monitoring.

106. 551.468 7 Bea vol. 2

Beaufort Sea Environmental Assessment Panel.  
*Beaufort Sea Environmental Assessment Panel  
Submissions, No. 2, Environmental  
Effects--Onshore, 1983.*

This volume contains six submissions to the Beaufort Sea Environmental Assessment Review Panel which outline the possible impacts on wildlife and archaeological resources.

107. 551.468 7 Bea vol. 3

Beaufort Sea Environmental Assessment Panel.  
*Beaufort Sea Environmental Assessment Panel  
Submissions, No. 3, Environmental  
Effects--Offshore, 1983.*

This volume contains six submissions to the Beaufort Sea Environmental Assessment Review Panel on offshore concerns. Topics discussed include noise pollution, wind direction, and tanker design.

108. 551.468 7 Bea vol. 5

Beaufort Sea Environmental Assessment Panel.  
*Beaufort Sea Environmental Assessment Panel  
Submissions, No. 5, Environmental Effects--Yukon,  
1983.*

This volume contains 11 submissions to the Beaufort Sea Environmental Assessment Review Panel, on the topic of the potential environmental effects of oil and gas development in the Beaufort Sea on the Yukon. Submissions were received from the territorial and federal governments, as well as environmentalist groups. Topics discussed include archaeology, national park boundaries, shore bases and the Porcupine Caribou Herd.

109. 551.468 7 Bea vol. 6

Beaufort Sea Environmental Assessment Panel.  
*Beaufort Sea Environmental Assessment Panel  
Submissions, No. 6, Environment Effects--General,  
1983.*

This volume contains submissions presented to the Beaufort Sea Environmental Assessment Panel on general environmental concerns related to oil and gas development in the Beaufort Sea region. The Mackenzie Delta, land claims and migratory birds are a few of the topics covered in these submissions.

110. 351.823 Bea

Beaufort Sea Environmental Assessment Panel. *Compendium of Written Submissions to the Panel on the Dome, Gulf and Esso Response to the Panel's Environmental Impact Statement Deficiency Statement.* [Ottawa, ON]: Environmental Assessment Review Panel, 1983.

111. 551.468 7 Beau

Becker, P.R. *Beaufort Sea (Sale 97) Information Update.* Anchorage, Alaska: Minerals Management Service Alaska OCS Region, 1988.

This report includes the proceedings of the Beaufort Sea Sale 97 Information Update Meeting held in Anchorage in 1985. Papers were presented at this meeting on a wide variety of topics related to the Alaskan Beaufort Sea fish, whales, geology, and cultural and environmental monitoring.

112. 344.046 26 Sele

Canada. Environment Canada. Western and Northern Region. *Selection of an Area in the Canadian Beaufort Sea For Disposal of Inert Bulky Materials Such As Scrap Metal: An Assessment of Options.* Yellowknife, NWT: Environment Canada, 1986.

This report summarizes the findings of Phase II of a three phase study designed to recommend waste disposal sites in the Beaufort Sea. Phase II of the study was designed to evaluate areas where bulky inert waste and industrial wastes could be dumped, collect information from northern businesses on their ocean dumping needs, and recommend the most economical and suitable means of transport of wastes to the dump area. The study was also intended to develop a monitoring program to evaluate the environmental effects of dumping.

113. PAM 1987-269

Canada. Environmental Protection. Conservation and Protection. *Recommendations on a Preferred Site For the Ocean Disposal of Bulky Inert Materials in Beaufort Sea Waters Adjacent to the Northwest Territories.* Yellowknife, NWT: Environment Canada, 1987.

This report provides an overview on the selection process for choosing an ocean dumpsite for scrap metal in the Beaufort Sea. Descriptions of the environmental, economic, and navigational factors that were taken into consideration are provided.

114. 620.416 2 Port 1988 vol. 2

Cowles, C. and J.L. Imm. "Review of Studies on the Effects of Man-Induced Noise on Marine Mammals of the Bering, Chukchi, and Beaufort Seas and How the Results Have Been Applied to Federal Offshore Oil and Gas Management Decisions." In *Port and Ocean Engineering Under Arctic Conditions, Vol. II: Symposium on Noise and Marine Mammals*, 1-8. Fairbanks, AK: Geophysical Institute, University of Alaska, Fairbanks, 1988.

This paper reviews studies on the effects of noise on marine mammals that have been undertaken in the Bering, Chukchi, and Beaufort Seas and discusses how these studies have been used in making decisions regulating offshore oil and gas activities. The paper concludes that results from many of these studies have influenced decisions to protect marine mammals and bird populations.

115. 333.823 1 LGL

ESL Environmental Sciences Ltd., and Seakem Oceanography Ltd. *Beaufort Environmental Monitoring Project: Final Report*. 1983/84-1987/88 (6 vols). Environmental Studies (Canada. Indian & Northern Affairs). Ottawa, ON: Minister of Supply and Services Canada, 1985-1990.

The Beaufort Environmental Monitoring Project (BEMP) was initiated in 1983 by Indian and Northern Affairs Canada. The Project was designed to provide the technical basis for design, operation and evaluation of a environmental research and monitoring program to accompany hydrocarbon development in the Beaufort Sea. The project was absorbed into the Beaufort Region Environmental Assessment and Monitoring Program (BREAM) in 1989.

116. 333.823 1 BREAM

ESL Environmental Sciences Ltd. *Beaufort Region Environmental Assessment and Monitoring Program (BREAM): Final Report*. 1990/91- . Environmental Studies (Canada. Indian & Northern Affairs). Ottawa, ON: Minister of Supply and Services Canada, 1992-.

The Beaufort Region Environmental Assessment and Monitoring Program (BREAM) combines and builds on two earlier projects--Beaufort Environmental Monitoring Project (BEAM) and the Mackenzie Environmental Monitoring Project (MEMP). The increased scope of BREAM includes consideration of catastrophic oil spills, northern communities, global climate change and industrial development. A greater emphasis is also placed on traditional and local knowledge.



117. 363.728 Hoo

Hoos, L.M. *Ocean Dumpsite Designation in the Canadian Beaufort Sea: vol. 1: Scrap Metal*. Yellowknife, NWT: Environmental Protection Service, 1985.

This report outlines the feasibility of a deep water ocean dumpsite for scrap metal in the Beaufort Sea. Criteria used include water depth, use of area, ice scouring, exploration and biological sensitivity. Areas with the best fit are recommended as potential sites for offshore disposal of bulky inert waste such as scrap metal.

118. Ref 016.5 Kwa

Kwamena, F., C. Brassard, and D. Wright. *Onshore Impacts of Offshore Hydrocarbon Development: Annotated Bibliography*. Ottawa, ON: Environment Canada, 1983.

This annotated bibliography contains citations on the onshore impact of offshore hydrocarbon development. It includes sections on facilities, socio-economic impacts, environmental impacts, and experiences in Britain, Norway, and North America.

119. 333.71 Chal

Lamson, C., and D.L. VanderZwaag. *The Challenge of Arctic Shipping: Science, Environmental Assessment, and Human Values*. McGill Queen's Series in Native and Northern Studies, no. 2. Kingston, Ontario: McGill-Queen's University Press, 1990.

These essays provide an analysis of the many issues related to shipping in the Canadian Arctic. Some of the issues considered include Canadian arctic sovereignty, the rights of Inuit and Inuivaluit people, and the environmental impact of shipping. Illustrated with maps and drawings.

120. 333.8232 Liv

Livingston, J. *Arctic Oil*. Toronto, ON:  
Canadian Broadcasting Corporation, 1981.

This book provides a valuable introduction to the environmental concerns associated with oil and gas development in the Canadian Arctic, including the Beaufort Sea. Livingston discusses potential environmental and socio-economic impacts associated with oil and gas development in the North and proposes ways of handling development to lessen these impacts.

121. 665.538 9 Oil

R.M. Hardy & Associates Ltd. *Oiled Debris Disposal and Storage Sites: Beaufort Sea Coast*. Ottawa, Ontario: Supply and Services Canada, 1979.

This report contains the results of a study to determine possible locations for landfill disposal sites and temporary storage sites for oiled debris from sand and shingle beaches along the Canadian Beaufort Sea coast. The study established guidelines for site selection, design, construction, and reclamation for landfill disposal sites, temporary storage sites, and access roads.

122. 363.73 Sad

Sadler, B. *An Evaluation of the Beaufort Sea Environmental Assessment Panel Review*. English ed. Ottawa, ON: Federal Environmental Assessment Review Office, 1990.

This report which evaluates the impact and role of the Beaufort Sea Environmental Assessment Panel and makes 20 recommendations on the assessment process.

123. PAM 1992-342

Thomas, D.J. *Considerations in the Design of Effects Monitoring Strategies: Beaufort Sea Case Study.* Environmental Studies Research Funds Report, no. 118. Calgary, Alta: Environmental Studies Research Funds, 1992.

This report examines the environmental monitoring program operating in the Canadian Beaufort Sea and proposes a framework for designing such monitoring programs. The report concludes that this framework should be designed in such a way that the results obtained will be scientifically sound, relevant, and of greater long-term value than in the past.

124. 331.71 Alas

United States. Minerals Management Service. Alaska OCS Region. *Alaska OCS Region, 1987: Arctic Information Transfer Meeting: Conference Proceedings, 17-20 Nov. 1987, Anchorage, Alaska.* Anchorage, Alaska: Alaska OCS Region, 1988.

**Fish and aquatic ecosystems:**

125. 574.526 3 Bond

Bond, W.A., and R.N. Erickson. *Summer Studies of the Nearshore Fish Community At Phillips Bay, Beaufort Sea Coast, Yukon.* Canadian Technical Report of Fisheries and Aquatic Sciences, no. 1676. Winnipeg, Man.: Dept. Of Fisheries and Oceans, 1989.

This report describes the abundance, general biology, and summer movement patterns of fish at Phillips Bay off the Yukon North Slope. Fish populations were sampled by gillnets, small mesh seines and shore-set trapnets in 1985 and 1986.

126. 592.096 Mar

Chiperzak, D.B. *Marine Ichthyoplankton Data From the Canadian Beaufort Sea Shelf, July and September, 1984.* 1st ed. Winnipeg: Central and Arctic Region, Dept. of Fisheries and Oceans, 1990.

Ichthyoplankton data was collected along the Canadian Beaufort Sea Shelf in July and September, 1984. The fish larvae caught included six families and nine species and each was measured for length and weight.

127. 574.52 Cro

Cross, W.E. *Cameron Island Benthos: Preliminary Baseline Community Description.* Ottawa, ON: Indian Affairs & Northern Development, 1986.

Marine invertebrates found near Cameron Island, Northwest Territories were analyzed for hydrocarbon contamination and found to be free of obvious contaminants. The study created a baseline data set for use in assessing damage to the marine ecosystem in the event of a major oil spill.

128. 333.823 Yuk

Griffiths, W.B. *Yukon Fish and Effects of Causeways*. Ottawa, ON: Minister of Supply and Services Canada, 1988.

This report examines the impacts of two Alaskan causeways at Prudhoe Bay on local fish populations. It also examines possible impacts of two proposed causeways in the Yukon, at Stokes Point and King Point. The possible impacts that causeways would have at Stokes Point and King Point are examined by reviewing fish population studies and available oceanographic studies.

129. 551.468 7 Hsi

Hsiao, S.I.C. *Biological Productivity of the Southern Beaufort Sea: Phytoplankton and Seaweed Studies*. Beaufort Sea Technical Report, No. 12c. Victoria, BC: Beaufort Sea Project, 1976.

Phytoplankton and seaweed productivity was determined in the summers of 1973, 1974 and 1975. Differences between inshore and offshore samples are examined. Experiments to determine sensitivity to crude oil were performed on phytoplankton algae and seaweed.

130. 551.468 Arc vol. 11

Institute of Ocean Sciences (Sidney, B.C.). *Arctic Data Compilation and Appraisal. Vol. 11, Beaufort Sea: Biological Oceanography-- Marine Zoobenthos 1914 to 1986*. Canadian Data Report on Hydrography and Ocean Sciences, no. 5. Sidney, BC: Institute of Ocean Sciences, 1987.

This volume contains descriptions of animals on the sea floor from the Beaufort Sea and Amundsen Gulf. Data was collected between 1914 and 1986 and has been summarized by year, season and region.

131. 551.468 Arc vol. 15

Institute of Ocean Sciences (Sidney, B.C.).  
*Arctic Data Compilation and Appraisal. Vol. 15, Beaufort Sea: Biological Oceanography--Fish 1896 Through 1985.* 2 vols. Canadian Data Report on Hydrography and Ocean Sciences, no. 5. Sidney, BC: Institute of Ocean Sciences, 1988.

This report contains information on fish of the southern Beaufort Sea collected in laboratory and field studies from the years 1896 through 1985. The times and locations where samples were taken are presented graphically on a yearly and seasonal basis.

132. 551.468 Arc vol. 9

Institute of Ocean Sciences (Sidney, B.C.).  
*Arctic Data Compilation and Appraisal. Vol. 9, Beaufort Sea: Biological Oceanography--Bacteria, Plankton, Ipontic Community 1914 to 1985.* Canadian Data Report on Hydrography and Ocean Sciences, no. 5. Sidney, BC: Institute of Ocean Sciences, 1987.

This report includes information collected on bacteria, plankton, and algae of the southeastern Beaufort Sea and Amundsen Gulf region for the period 1914 to 1985.

133. 595.384 Keas

Keast, M.A., and M. Lawrence. *A Guide to Identification of Decapoda, Euphausiacea, and Mysidacea From the Southern Beaufort Sea.* Canadian Manuscript Report of Fisheries and Aquatic Sciences, no. 2047. Winnipeg, Man: Dept. Of Fisheries and Oceans Central and Arctic Region, 1990.

This report is a guide to three orders of shrimp like crustaceans, (Decapoda, Euphausiacea and Mysidacea), found in the Southern Beaufort Sea. The guide includes drawings and descriptions of a number of species

134. 551.460 83 Kno

Knowles, R. *Nitrogen Fixation in Arctic Marine Sediments*. Beaufort Sea Technical Report, no. 9. Ottawa, ON: Beaufort Sea Project, 1975.

Grab and core samples of sediments were taken from the Beaufort Sea and from Eskimo Lakes, using an indirect assay method. Very low fixation rates were noted. The study found that weathered Norman Wells crude and most other hydrocarbons had little effect on the nitrogen-fixing process.

135. 595.372 971 Guide

Lawrence, M.J., and M.A. Keast. *A Guide to Identification of Benthic Isopoda From the Southern Beaufort Sea*. Winnipeg, Manitoba: Department of Fisheries and Oceans, 1990.

This report is a guide to sixteen species of bottom-dwelling crustaceans (benthic isopoda) found in the southern Beaufort Sea. Four suborders; the Asellota, Gnathiidea, Valvifera, and Epicaridea, are discussed.

136. 557 P82-1B

Lichti-Federovich, S. "Contribution to the Diatom Flora of Arctic Canada: Report 3. On the Occurrence of *Chaetoceros* Spp. Fo. *Chavipes* in the Southern Beaufort Sea." In *Current Research, Geological Survey of Canada, Part B, Paper 82-1B*, 169-171. Ottawa: Geological Survey of Canada, 1982.

This article describes phytoplankton collected in the southern Beaufort Sea in the summer of 1970.

137. 388.132 Synth 1989

MBC Applied Environmental Sciences. *A Synthesis of Environmental Information on Causeways in the Nearshore Beaufort Sea, Alaska: Workshop Proceedings.* OCS Study, MMS 89-0038. Anchorage, Alaska: Minerals Management Service, Alaska OCS Region, 1990.

This report includes the proceedings of a workshop on causeways in the Alaskan Beaufort Sea, held in Anchorage in 1989. Presentations describe the use of causeways in offshore oil and gas developments in the Beaufort and their impact on a variety of fish. Summaries are also included on workshops on physical oceanography, fish movements, migrations habitat and alternatives to causeways.

138. 574.927 Mey

Meyer, R.M., and T.M Johnson. *Fisheries Oceanography--A Comprehensive Formulation of Technical Objectives For Offshore Application in the Arctic: Workshop Proceedings.* Anchorage, AK: Minerals Management Service, 1990.

These proceedings include papers presented at a workshop, held in Anchorage, Alaska, April, 1988 with the objective of identifying technical objectives for a multi-year study of the Alaskan Arctic fisheries resource and its relationship with offshore oil development.

139. 333.956 130 Patt

Northern Affairs Program (Canada), and Rawson Academy of Aquatic Science. *Patterns and Trends in the Domestic Fishery in and Near the Mackenzie River Watershed: A Synthesis of a Survey of Fish Users in Dene and Metis Communities.* Environmental Studies (Canada. Indian and Northern Affairs), no. 66. Ottawa, ON: Indian Affairs and Northern Development, 1990.

The findings of a domestic fisheries survey conducted in eleven communities in and near the Mackenzie River Valley concludes that there are abnormalities in whitefish and burbot, but did not attribute this directly to oil pollution.



140. 590 Stu

Northern Affairs Program (Canada). *Studies to Determine Whether the Condition of Fish From the Lower Mackenzie River Is Related to Hydrocarbon Exposure*. Environmental Studies (Canada. Indian Affairs & Northern Development), no. 61. Ottawa, ON: Indian and Northern Affairs, 1989.

This report includes the results of a study to determine whether burbot and whitefish from the Lower Mackenzie River Valley have been affected by oil pollution. Although the report confirmed the concerns of local residents over fish quality. It did not determine the cause of this poor quality nor make any recommendations on whether local residents should continue to consume the fish.

141. 363.738 2 Per

Percy, J.A., and T.C. Mullin. *Effects of Crude Oils on Arctic Marine Invertebrates*. Beaufort Sea Technical Report, no. 11. Ottawa, ON: Beaufort Sea Project, 1975.

This comprehensive report details laboratory experiments on arctic marine invertebrates undertaken to test their response to crude oil spills. Four types of crude oil were tested on different species and the physiological, behavioural, and general biological and ecological effects of each were described.

142. 574.526 3 Seker

Sekerak, A.D., N. Stallard, and W.B. Griffiths. *Distribution of Fish and Fish Harvests in the Nearshore Beaufort Sea and Mackenzie Delta During Ice-Covered Periods, October-June*. Environmental Studies Research Funds Report, no. 117. Calgary, Alberta: Environmental Studies Research Funds, 1992.

This report contains the results of a study on the fish overwintering habitats found in the Mackenzie Delta/Beaufort Sea region and includes detailed information on the fish harvest and land use by the Inuvialuit.

143. 551.468 7 Wac

Wacasey, J.W. *Biological Productivity of the Southern Beaufort Sea: Zoobenthic Studies.* Beaufort Sea Technical Report, no. 12b. Victoria, BC: Beaufort Sea Project, 1975.

This study reports the baseline data on zoobenthos gathered in the southern Beaufort Sea. Surveys and sampling from 1971 to 1975 indicate that there are four different zones that can be characterized by biological and physical properties.

**Mammals:**

144. PAM 1984-219

Babcock, C.A. "Microtine Rodents and Ground Squirrels of the Coastal Plain and Foothills of the Arctic National Wildlife Refuge: Distribution, Densities, and General Ecology." In *ANWR Coastal Plain Resource Assessment: 1983 Update Report Baseline Study of the Fish, Wildlife and Their Habitats*. Fairbanks, Alaska: US Fish and Wildlife Service, 1984.

145. Microfilm P-11, Reel #30

Blix, A.S., and J.W. Lentfer. "Noise and Vibration Levels in Artificial Polar Bear Dens As Related to Selected Petroleum Exploration and Development Activities" *Arctic* 45, no. 1 (1992): 20 - 24.

This report contains the data collected to determine if winter activity associated with hydrocarbon exploration would disturb denning polar bears. Seismic activity carried out on the Alaskan North Slope was replicated and noise levels and vibrations in artificial polar bear dens were measured. It was concluded that the noise levels of oil activities would not disturb denning polar bears.

146. 620.416 2 Port 1988 vol. 2

Brendan, K., J.J. Burns and L.T. Quakenbush. "Responses of Ringed Seals (*Phoca hispida*) to Noise Disturbance." In *Port and Ocean Engineering Under Arctic Conditions, Vol. II: Symposium on Noise and Marine Mammals*, 27-38. Fairbanks, AK: Geophysical Institute, University of Alaska, Fairbanks, 1988.

This paper presents the results of studies on how industrial noises affect ringed seals in the Alaskan Beaufort Sea. The conclusion reached indicates that industrial noise associated with oil and gas activities caused seals to abandon breathing holes and lairs at a much higher rate than seals not disturbed by noise.

147. 599.51 Bowhead

Burns, J.J., J.J. Montague, and C.J. Cowles. *The Bowhead Whale*. Special Publication of the Society of Marine Mammalogy, no. 2. Lawrence, KS: Society of Marine Mammalogy, 1993.

148. 599.744 46 Clark

Clarkson, P., and I. Liepins. *Grizzly Bear Research Progress Report*. 1988/89-1989/91 (2 vols). Inuvialuit Wildlife Studies. Inuvik, NWT: Dept. Of Renewable Resources, 1989-1992.

149. PAM 1992-341

Clarkson, P., and I. Liepins. *Western Arctic Wolf Research Project: Progress Report, 1989/91*. Inuvialuit Wildlife Studies. Inuvik, NWT: Department of Renewable Resources, 1992.

This report contains the results of wolf studies conducted in the western Arctic from 1987-1991. Information was collected on pack membership and range predation patterns, den sites, reproduction, and mortality rates.

150. Periodical

Curalto, J.A., and S.M. Murphy. "The Effects of Pipeline, Roads, and Traffic on the Movement of Caribou, Rangifer Tarandus" *Canadian Field Naturalist* 100, no. 2 (April/June 1986): 218 - 224.

This paper presents the results of a study of the behaviour of the Central Arctic Caribou herd around pipelines and roads in the Prudhoe Bay and Kuparuk oilfields. Data was collected on caribou group size and composition, reactions of caribou while crossing roads and pipelines, and travel routes.

151. 599.53 S1

F.F. Slaney & Co. Ltd. *White Whale Study: Herschel Island-Cape Dalhousie Coastal Region of the Beaufort Sea.* Calgary, Alberta: Imperial Oil Limited, 1974.

This report presents the results of a study of white whales (beluga) undertaken in 1972-73 for Imperial Oil. The study includes information on white whale summer distribution and numbers in Mackenzie Bay, monitors the whales response to industrial noise and reassess native hunting patterns and harvests in the Mackenzie estuary.

152. 599.5 Fra

Fraker, M.A., and W.J. Richardson. *Bowhead Whales in the Beaufort Sea: A Summary of Their Seasonal Distribution and Activities, and Potential Disturbance By Offshore Oil and Gas Exploration and Development.* Washington, DC: Bureau of Land Management. Department of the Interior, 1980.

This report reviews the literature on bowhead whales published prior to 1980 in order to determine the status of information on the bowhead whale and identify research needs. Sources of potential disturbance are identified and recommendations are made for future research.

153. Microfiche LGL-Wh

Fraker, P.N., and M.A. Fraker. *The 1981 White Whale Monitoring Program, Mackenzie Estuary.* Microfiche. Sidney, BC: LGL Ltd., 1982.

154. 620.416 2 Port 1988 vol. 2

Frost, K.J. and L.F. Lowry. "Effects of Industrial Activities on Ringed Seals in Alaska, As Indicated By Aerial Surveys." In *Port and Ocean Engineering Under Arctic Conditions, Vol. II: Symposium on Noise and Marine Mammals*, 15-25. Fairbanks, AK: Geophysical Institute, University of Alaska, Fairbanks, 1988.

This paper describes the impact of oil and gas development activities on ringed seals in the Alaskan Beaufort Sea, based on aerial surveys. The paper describes changes in ringed seal populations and concludes that any changes are difficult to attribute to industrial activities. Future research is recommended in order to gain a better understanding of how human activities affect ringed seals.

155. 333.823 15 GNWT no. 6

Gunn, A. "Evaluation Responses of Caribou and Other Ungulates to Industrial Activities and the Effects of Those Activities." In *Government of the Northwest Territories Submissions to the Beaufort Sea Environmental Assessment Panel, 1983*

This report provides a valuable overview on the possible impacts of industrial activities on ungulates. Potential impacts related to oil and gas development are discussed and recommendations are made for future research and initiatives.

156. 551.468 Arc vol. 10

Institute of Ocean Sciences (Sidney, B.C.). *Arctic Data Compilation and Appraisal. Vol. 10, Beaufort Sea: Biological Oceanography-- Whales 1848-1983.* Canadian Data Report of Hydrography and Ocean Sciences, no. 5. Sidney, BC: Institute of Ocean Sciences, 1987.

This volume contains a compilation of data on whales in the Beaufort Sea collected in the Beaufort Sea from 1848 to 1983. The bulk of the report is made up of maps and charts that summarize sightings made by non-native explorers and scientists.

157. 551.468 Arc vol. 8

Institute of Ocean Sciences (Sidney, B.C.).  
*Arctic Data Compilation and Appraisal. Vol. 8, Beaufort Sea: Biological Oceanography--Seals 1926-1985.* 2 vols. Canadian Data Report on Hydrography and Ocean Sciences, no. 5. Sidney, BC: Institute of Ocean Sciences, 1986.

This volume contains information on seals of the Beaufort Sea collected from 1826 to 1985. The bulk of the report is made up of maps that show the location of seal sightings made primarily by non-native explorers and scientists from Sir John Franklin to the present.

158. PAM 1991-82

Klein, D.R. "Caribou in the Changing North" *Applied Animal Behaviour Science*, no. 29 (1991): 279-291.

This article describes recent population changes in circumpolar caribou herds and the impact of oil and gas development on caribou behaviour. Comparisons are made between the impact of oil and gas development on the Central Caribou Herd, and on the Porcupine Caribou Herd.

159. 599.51 Koski

Koski, W.R., G.W. Miller, and R.A. Davis. *The Potential Effects of Tanker Traffic on the Bowhead Whale in the Beaufort Sea.* Environmental Studies (Canada. Indian and Northern Affairs Canada), no. 58. Ottawa, ON: Indian and Northern Affairs Canada, 1988.

This report studies the potential effects of tanker traffic on bowhead whales in the Beaufort Sea. The behaviour and movements of whales were studied, using data collected from aerial surveys and photographs and predictions were made on how tanker traffic would change whale behaviour. The possible impact tanker traffic could have on Inupiat subsistence whale hunting was also discussed, particularly for the Kaktovik, Alaska area.

160. 333.823 15 GNWT no. 10

Latour, P. "The Potential Effects of Increased Industrial Activity on Polar Bears in the Beaufort Sea." In *Government of the Northwest Territories Submissions to the Beaufort Sea Environmental Assessment Panel, 1983*

This report discusses possible impacts of development on the Beaufort Sea polar bears. The report reviews biological research, describes the importance of the subsistence economy, and discusses the possible effects of oil and gas development.

161. 599.51 Bowh

LGL Ltd. *Bowhead Whale Food Availability Characteristics in the Southern Beaufort Sea: 1985 and 1986.* Environmental Studies (Canada. Indian & Northern Affairs Canada), no. 50. Ottawa, ON: Indian and Northern Affairs, 1987.

This volume contains two separate reports on the natural factors that affect bowhead whale distribution in the southern Beaufort Sea. The focus of the study is on the distribution of zooplankton available during the summer and the conclusion reached indicates that the whales only feed in areas of very high zooplankton concentration.

162. 387.544 8 Wor

LGL Ltd. *A Workshop on Selected Environmental Impacts of Ship Traffic in Lancaster Sound and Northern Baffin Bay: Final Report.* Ottawa, ON: Indian and Northern Affairs, 1986.

This report contains the proceedings of a workshop held to discuss the possible impacts of marine traffic on marine mammal populations and two species of birds (ivory gulls and thick-billed murres) in the Eastern Arctic.



163. 599.509 163 25 Ljun

Ljungblad, D., S. Moore, and J. Clarke.  
*Distribution, Abundance, Behavior and Bioacoustics of Endangered Whales in the Alaskan Beaufort and Eastern Chukchi Seas 1979-86.*  
Photocopy. OCS Study, MMS 87-0039. Springfield, VA: NTIS, 1993.

This report includes the results of aerial surveys and acoustic recordings of bowhead whales undertaken in the Alaskan Beaufort Sea in 1986. The report also provides an overview of information collected on whale distribution, abundance, behaviour, acoustics, and migration collected between 1979 and 1986.

164. 599.5 Dis

Ljungblad, D. *Distribution of Endangered Whales and Other Marine Mammals in the Western Beaufort and Northeastern Chukchi Seas, October 2-16, 1988.* Anchorage, Alaska: Minerals Management Service, 1989.

This report contains raw data on the distribution of whales in the Beaufort Sea collected from aerial surveys in the fall of 1988.

165. 917.19 Mai 1908

MacFarlane, R. "Notes on Mammals Collected and Observed in the Northern Mackenzie River District, North-West Territories of Canada." In *Through the Mackenzie Basin: A Narrative of the Athabasca and Peace River Treaty Expedition of 1899*, 151-283. Toronto, ON: William Briggs, 1908.

This report describes animal collections and observations made by a Hudson's Bay Company employee in the Mackenzie Delta area between 1861 and 1866. More than 20 species of mammals are described including marine mammals. Information is included on species abundance and the importance of each species to the local subsistence economy of the Mackenzie Delta Inuvialuit.

166. 599.51 Mille

Miller, G.W., R.A. Davis, and W.J. Richardson. *Behavior of Bowhead Whales of the Davis Strait and Bering/Beaufort Stocks Vs. Regional Differences in Human Activities*. OCS Study, MMS 91-0029. King City, ON: LGL Limited, 1991.

This report presents the results of the second part in a two-phased study comparing the behaviour of bowhead whales in Davis Strait, Bering and the Beaufort Seas to determine if the increased levels of human activity between 1974 - 1986 has impacted on whale behaviour. Descriptions of a variety of human activities including subsistence-related vessel traffic, commercial fishing, seismic activity, commercial shipping, and low-level aircraft flights.

167. 599.509 163 25 Moore

Moore, S.E., and J.T. Clarke. *Final Report: Distribution, Abundance and Behavior of Endangered Whales in the Alaskan Chukchi and Western Beaufort Seas, 1991: With a Review of 1982-91*. OCS Study, MMS-92-0029. Anchorage, AK: Minerals Management Service, Alaska OCS Region, 1992.

This report summarizes the results of the 1991 study on the distribution, abundance, migration, and behavior of endangered whales in the Alaskan Chukchi and Western Beaufort Seas. Bowhead whales and gray whales were the main species studied, but information was also included on belukhas, walruses, and seals.

168. 599.51 Moo

Moore, S.E. *Distribution, Abundance and Behavior of Endangered Whales in the Alaskan Chukchi and Western Beaufort Sea, 1989*. Anchorage, AK: Minerals Management Service, 1990.

This report summarizes the 1989 investigations of distribution, abundance and migration of bowhead and gray whales in the Chukchi, Beaufort, and Bering Seas.

169. 599.744 46 Nagy

Nagy, J.A. *Biology and Management of Grizzly Bear on the Yukon North Slope*. Whitehorse, Yukon: Yukon Fish and Wildlife Branch, 1990.

170. 599.735 7 North 1987

North American Caribou Workshop (3rd : Chena Hot Springs, Alaska). *Reproduction and Calf Survival: Proceedings of the 3rd North American Caribou Workshop, Chena Hot Springs, Alaska, 4-6, Nov. 1987*. Alaska Dept. of Fish and Game Wildlife Technical Bulletin, no. 8. Juneau, Alaska: Alaska Dept. Of Fish and Game, 1988.

The proceedings of the 3rd North American Caribou Workshop held at Chena Hotsprings, Alaska in 1987 on the theme of reproduction and calf survival provide a comprehensive view of the status of caribou herds across North America.

171. 599.51 Comp

Reed, M., K. Jayko, and A. Bowles. *Computer Simulation of the Probability That Endangered Whales Will Interact With Oil Spills*. Narragansett, R.I.: Applied Science Associates Inc., 1987.

A computer model developed to assess the possibility of bowhead and gray whales interacting with oil spills in the Beaufort Sea, includes migration models, a diving surfacing model, and an oil spill trajectory model.

172. Periodical

Reeves, R.R., D. Ljungblad, and J.T. Clarke.  
"Bowhead Whales and Acoustic Seismic Surveys in  
the Beaufort Sea" *Polar Record* 22, no. 138  
(September 1984): 271 - 280.

This paper presents results from a study  
undertaken off the Alaska North Slope in 1981 -  
82 of how seismic survey activities effect  
bowhead whales. The paper concludes that noise  
associated with seismic activities did affect  
whale behaviour, but that further research is  
necessary before conclusions can be drawn on the  
significance these changes have for long-term  
whale behaviour.

173. 599.5 Acou 1990

Richardson, W.J., C. Greene, and M.A. Smultea.  
*Acoustic Effects of Oil Production Activities on  
Bowhead and White Whales Visible During Spring  
Migration Near Pt. Barrow, Alaska.* OCS Study,  
MMS 91-0037. King City, ON : LGL Limited, 1991.

A study on the effects of noise from bottom -  
founded drilling or preduction platform on  
bowhead and white whales during spring migration  
near Pt. Barrow, Alaska concludes that both the  
bowhead and white whales show alternations in  
behavior related to distribution and movements  
(headings, turns, speed of movement).

174. 599.51 Ric

Richardson, W.J., and K.J. Finley. *Comparison of  
Behavior of Bowhead Whales of the Davis Strait  
and Bering/Beaufort Stocks.* Herndon, VA: U.S.  
Minerals Management Service, Procurement and  
General Services Division, 1989.

175. PAM 1990-178

Richardson, W.J., B. Wursig, and C.R. Greene. *Reactions of Bowhead Whales, Balaena Mysticetus, to Drilling and Dredging Noise in the Canadian Beaufort Sea*. London, Eng.: Elsevier Science Publishers, 1990.

This article discusses the results of a study to determine whether Bowhead whales are disturbed by the noise created by oil and gas activities in the Canadian Beaufort. Whales were observed during the summer within several kilometres of drilling and dredging sites. These whales seemed to be engaging in normal levels of activity. But, playback experiments demonstrated that bowhead whales often move away from drillship and dredge noise. The degree of sensitivity to such noise varies with the individual whale.

176. 599.5 Behav

Richardson, W.J. *Behavior, Disturbance Responses and Feeding of Bowhead Whales, Balaena Mysticetus, in the Beaufort Sea 1980-81*. Washington, DC: Bureau of Land Management, 1982.

This study provides a comprehensive overview on the response of bowhead whales to the disturbances created by oil and gas development in the Canadian Beaufort Sea. The study includes information on normal or undisturbed bowhead whale behaviour, a range of disturbance responses, characteristics of feeding areas, and characteristics of waterborne industrial noise. With the exception of a major oil spill, the study concluded that noise was the most disruptive aspect of oil and gas development for bowhead whales.

177. 363.742 Effec 1989

Richardson, W.J. *Effects of Offshore Petroleum Operations on Cold Water Marine Mammals: A Literature Review*. API Publication, no. 4485. Washington, DC: American Petroleum Institute, 1989.

The report reviews literature on the acoustic, non-acoustic and cumulative effects of offshore petroleum operations on marine mammals. The report concludes that more studies need to be done before any general conclusions can be reached about the effects of the oil and gas industry on marine mammals. Includes maps, graphs, tables, and a comprehensive bibliography.

178. 599.51 Rob

Robertson, I., and E.O. Robertson. *Assessment of the Value of Stratified Sampling For Aerial Surveys: A Case Study of Bowhead Whales in the Beaufort Sea*. Ottawa, ON: Minister of Supply and Services, 1987.

This report examines the statistical analysis of bowhead whale sightings in the Beaufort Sea from surveys flown between 1981 and 1984. The purpose of the reexamination was to determine whether a different sampling method could be used to get the same results.

179. Microfilm P-11, Reel #17

Ross, W.G. "The Annual Catch of Greenland (Bowhead) Whales in Waters North of Canada 1719-1915: A Preliminary Compilation" *Arctic* 32, no. 2 (June 1979): 91-121.

180. 599.745 Smi

Smith, T.G., and J.R. Geraci. *Effect of Contact and Ingestion of Crude Oil on Ringed Seals of the Beaufort Sea*. Beaufort Sea Technical Report, no. 5. Ottawa, ON: Beaufort Sea Project, 1975.

Describes experiments performed on live seals to test the effects of crude oil contact and ingestion. In one series of experiments, the seals suffered little damage to their bodies except for acute irritation of the eyes. In another trial, all the experimental animals died very shortly after coming into contact with the crude oil. Stress was considered a factor in the deaths of experimental animals.

181. PAM 1983-230

Smith, W., and R. Cameron. "Responses of Caribou to Industrial Development on Alaska's Arctic Slope" *Acta Zoologica Fennica*, no. 175 (1983): 43-45.

This article summarizes the findings of studies on the Central Arctic Caribou herd found in the Prudhoe Bay, Alaska. The study concludes that females with calves avoid areas of industrial activity and this avoidance would increase with increased activity due to oil exploration, production and transport.

182. 599.735 7 Nor 1983

Smith, W.T. and R.D. Cameron. "Factors Affecting Pipeline Crossing Success of Caribou." In *Caribou and Human Activity*, 40 - 46. Whitehorse, Yukon: Canadian Wildlife Service, 1985.

This study discusses the problems caribou have crossing pipelines where success depends on pipeline design, caribou group structure and environmental factors such as snow, traffic and insect abundance. Crossing success lowers with an increase in group size and raises with increased insect harassment.

183. 333.823 15 GNWT no. 17

Stenhouse, G. "Bear/Human Conflicts." In *Government of the Northwest Territories Submissions to the Beaufort Sea Environmental Assessment Panel, 1983*

This report discusses conflicts between humans and bears in the North that are related to industrial activities. Discusses ways of minimizing conflict and includes recommendations for companies operating in the Northwest Territories.

184. 551.468 7 Sti

Stirling, I. *Distribution and Abundance of Polar Bears in the Eastern Beaufort Sea.* Beaufort Sea Technical Report, no. 2. Ottawa, ON: Beaufort Sea Project, 1975.

This report describes the Beaufort Sea polar bear population from October 1970 - July 1975. Bears were tagged and then monitored in recapture programs and through hunter participation. Age structures, sex and distribution of bears were noted.

185. 599.746 Sti

Stirling, I. *Distribution and Abundance of Seals in the Eastern Beaufort Sea.* Beaufort Sea Technical Report, no. 1. Ottawa, ON: Beaufort Sea Project, 1975.

Ringed and bearded seals were surveyed over two years and substantial declines were noticed from 1974 to 1975. The decline was attributed to severe sea ice conditions in 1974 causing declines in pup productivity and survival, ovulation and pregnancy rates.



186. 599.004 2 Tre

Treacy, S.D. *Aerial Surveys of Endangered Whales in the Beaufort Sea*. 1987-1990 (4 vols). Anchorage, Alaska: U.S. Minerals Management Service, 1990.

These reports summarize the results of aerial surveys conducted from 1987-1990 in the Alaskan Beaufort Sea. Each report provides information on population migration and behavior patterns of the bowhead whales.

187. 620.416 2 Port 1988 vol. 2

Ward, J.G. and E. Pessah. "Industry Observations of Bowhead Whales in the Canadian Beaufort Sea, 1976- 1985." In *Port and Ocean Engineering Under Arctic Conditions, Vol. II: Symposium on Noise and Marine Mammals*, 75-88. Fairbanks, AK: Geophysical Institute, University of Alaska, Fairbanks , 1988.

This paper presents the results of observations of bowhead whales made by Canmar personnel in the Canadian Beaufort Sea during the course of exploration activities. Observations were made beginning in 1976 as part of terms and conditions for approval of exploration activity. Based on the observations, this paper concludes that bowhead whales have not avoided areas where oil exploration is occurring. Detailed information is included on these whale sightings, many of which took place off the Yukon North Slope.

188. 599.735 7 Nor 1983

Whitten, K.R. and R.D. Cameron. "Distribution of Caribou Calving in Relation to the Prudhoe Bay Oil Field." In *Caribou and Human Activity*, 35-39. Whitehorse, Yukon: Canadian Wildlife Service, 1985.

This article examines the Central Arctic Caribou herd in Alaska. Despite the presence of the Prudhoe Bay oilfields, the herd has increased. A hypothesis states that the reason the herd is increasing is due to the relatively low density of caribou in the calving areas.

189. PAM 1992-243

Workshop on Beaufort Sea Beluga (1992 : Vancouver, BC). *Proceedings of a Workshop on Beaufort Sea Beluga, February 3-6, 1992.* Environmental Studies Research Funds Report, no. 123. Calgary, AB: Environmental Studies Research Funds, 1993.

This report contains the proceedings of a workshop held on Beaufort Sea beluga in Vancouver in 1992. Information is included on the present status of beluga in the Beaufort and recommendations for future research are made.

## Oil Spills & Oil Pollution

190. Microfiche Spill

*Spill Technology Newsletter*. Vol. 1 (1976)-Vol. 6 (1981) Microfiche. Ottawa, ON: Environmental Emergency Branch, 1976-.

191. PAM 1984-218

Allen, G.H., D.A. Hale, and R.T. Prentki. *Framework For Oil-Spill Responses on the Alaska OCS*. Draft Ed. Anchorage, Alaska: Alaska OCS Region, 1984.

192. 628.52 Oil

Amoco Canada Petroleum Co. Ltd. *Oil Spill Contingency Plan: Beaufort Sea Operations*. [S.L.]: Amoco Canada, 1990.

This is a comprehensive emergency response plan designed to deal with any oil spill emergency in the Beaufort Sea operations of Amoco Canada Petroleum Co. Included are plans for various levels of emergency, government liaison and public debriefing, action plans and counter measures. Wildlife protection plans and oil contaminated drilling waste disposal plans are also included.

193. 628.168 33 Arc

Arctic and Marine Oil Spill Program Technical Seminar (10-15th : 1987-1992). *Proceedings of the Arctic and Marine Oil Spill Program Technical Seminars*. Ottawa, ON: Minister of Supply and Services, 1987-1992.

194. 628.168 333 Arc

Arctic Marine Oil Spill Program Technical Seminar (5th-9th : 1982- 1986). *Proceedings of the Arctic Marine Oilspill Program Technical Seminar*. Ottawa, ON: Minister of Supply and Services, 1982-1986.

195. 551.468 7 Bea vol. 1

Beaufort Sea Environmental Assessment Panel.  
*Beaufort Sea Environmental Assessment Panel  
Submissions, No. 1, Oil Spills, 1983.*

This book contains 13 submissions to the Beaufort Sea Environmental Assessment Review Panel on the topic of oil spills in the Beaufort Sea. Specific submissions include spill trajectory models, contingency planning, government positions on oil spills, risk assessment, response capabilities and the handling of toxic substances.

196. 551.468 7 Rep vol. 1

Beaufort Sea Steering Committee. *A Report to the Minister of Indian Affairs and Northern Development Regarding Issues Arising From the Environmental Impact Review Board Reviews of the Isserk and Kulluk Drilling Program Applications.* Ottawa, ON: Indian and Northern Affairs Canada, 1991.

This report summarizes the recommendations made by the Beaufort Sea Steering Committee concerning government preparedness for a Beaufort Sea oil well blowout. The Committee made recommendations on a number of issues including government management, Inuvialuit involvement, development and costing of oil spill scenarios, wildlife and wildlife habitat restorations.

197. 551.468 7 Rep vol. 2

Beaufort Sea Steering Committee. Task Group #1. *Worst Case Scenario: A Report Prepared on Behalf of the Canadian Petroleum Association.* Ottawa, ON: Indian and Northern Affairs Canada, 1991.

This technical report develops an estimate of the cost of a "worst case scenario" oil well blowout in the Beaufort Sea. The report also contains detailed information on oil well blowouts.

198. 551.468 7 Rep vol. 3

Beaufort Sea Steering Committee. Task Group #2. *Wildlife and Wildlife Habitat Restoration and Compensation in the Event of an Oil Spill in the Beaufort Sea.* Ottawa, ON: Indian and Northern Affairs Canada, 1991.

This report discusses the issue of wildlife compensation for damages related to oil spills or oil well blowouts in the Beaufort Sea region. Compensation is considered within the context of the Inuvialuit Final Agreement (IFA). The report describes the mechanisms for compensation set up under the IFA and outlines detailed recommendations for rehabilitating wildlife in the event of an oil spill or blowout.

199. 551.468 7 Rep vol. 5

Beaufort Sea Steering Committee. Task Group #4. *Scientific Response Planning, Information Database Requirements and Environmental Assessment Methodology For an Oil Spill in the Beaufort Sea: Final Report.* Ottawa, ON: Indian and Northern Affairs, 1991.

This report discusses the possible response of the scientific community to an oil spill in the Beaufort Sea region. The state of scientific research on the Beaufort is discussed and recommendations are made for planning strategies for responding in the event of an oil spill.

200. 551.468 7 Rep vol. 6

Beaufort Sea Steering Committee. Task Group #5. *Report on Beaufort Sea Oil Spill Management.* 2 vols. Ottawa, ON: Indian and Northern Affairs Canada, 1991.

201. 551.468 7 Rep vol. 8

Beaufort Sea Steering Committee. Task Group #7. *Contingency Plan Testing and Inuvialuit Involvement.* Ottawa, ON: Indian and Northern Affairs Canada, 1991.

202. 551.468 7 Beauf

Boehm, P.D. *Final Annual Report on Beaufort Sea Monitoring Program: Analysis of Trace Metals and Hydrocarbons From Outer Continental Shelf (OCS) Activities.* 1985-1986 (2 Vols). Duxbury, Mass: Battelle New England Research Laboratory, 1985-1986.

The study objectives were to describe changes in the concentrations of trace metals and hydrocarbons in the Beaufort Sea sediments and animals of the sea bottom which may be a result of petroleum development. Bottom sediment and animals of the sea bottom (including benthic amphipods and bivalves) were collected and laboratory analyses were performed for trace metals, hydrocarbons, sediment grain size, and total organic carbon. The study concluded that higher concentrations of trace metals were found near discharges from major rivers.

203. 551.468 7 Beauf 1990

Boehm, P.D. *Final Report on Monitoring Hydrocarbons and Trace Metals in Beaufort Sea Sediments and Organisms.* OCS Study, MMS 90-0054. Anchorage, AK: Minerals Management Service, Alaska OCS Region, 1990.

This report outlines studies done on sediments and marine organisms of the Beaufort Sea to monitor hydrocarbons and trace metals. Illustrated with maps, tables and graphs.

204. 628.168 33 Arc 1983

Buist, I.A., R.C. Belore and L.B. Solsberg.  
"Countermeasures For A Major Oil Spill From A  
Tanker in Arctic Waters." In *Arctic Marine  
Oilspill Program Technical Seminar, 6th,  
Edmonton, Alta, 1983, Proceedings ...*, 168-189.  
Ottawa, ON: Minister of Supply and Services ,  
1983.

This article provides an overview of possible  
responses to oil spills in the Arctic. Topics  
covered include estimates of oil loss in a worst  
case scenario, information on how weather  
conditions and ice cover could affect spill  
response efforts.

205. PAM 1993-200

Canada. *The Government's Final Response to the  
Public Review Panel on Tanker Safety and Marine  
Spills Response Capability.* Ottawa, ON: Gov't  
of Canada, 1993.

206. 628.168 330 971 Canad

Canada. Public Review Panel on Tanker Safety and  
Marine Spills Response Capability. *Protecting  
Our Waters: Final Report.* Ottawa, ON: The  
Panel, 1990.

207. 628.168 330 971 Can-Sub

Canada. Public Review Panel on Tanker Safety and  
Marine Spills Response Capability. *Submissions  
[to the] Public Review Panel From the Arctic and  
Norman Wells/Whitehorse.* Hull, Que: The Panel,  
1989.

208. 628.168 330 971 Can-Tran

Canada. Public Review Panel on Tanker Safety and  
Marine Spills Response Capability. *Transcript of  
Proceedings.* Vol. 8-11, 27-28. Hull, Que: The  
Panel, 1989.

209. PAM 1992-344

Canadian Coast Guard. *Improving Canada's Marine Spill Response Capability: Proposed Guidelines For Shipboard Oil Pollution Emergency Plans.* Ottawa, ON: Canadian Coast Guard, 1992.

210. PAM 1992-175

Canadian Coast Guard. *Improving Canada's Marine Spill Response Capability: Proposed Guidelines For Response Authority Response Plans.* Ottawa, ON: Canadian Coast Guard, 1992.

211. PAM 1993-199

Canadian Coast Guard. *Improving Canada's Marine Spill Response Capability: Proposed Standards For Oil Handling Facility Oil Pollution Emergency Plans.* Ottawa, ON: Canadian Coast Guard, 1993.

212. 628.168 3 Task 1989

Canadian Petroleum Association, and Independent Petroleum Association of Canada. *Oil Spill Preparedness in the Upstream Petroleum Industry.* Calgary, Alta: Canadian Petroleum Association & Independent Petroleum Association of Canada, 1989.

This report evaluates the Canadian petroleum industry's current state-of-preparedness for dealing with oil spills. The report describes worst-case scenarios to determine the industry's ability to respond to large offshore spills caused by oilwell blow-outs in the Beaufort Sea, Grand Banks and Scotian Shelf. The study recommends more resources be allocated to improve training, communications with companies, between companies and regulatory agencies and to continue research in oil spill countermeasures.



213. 628.168 3 TAS

Canadian Petroleum Association. *Task Force on Oil Spill Preparedness (TFOSP): Implementation Plan*. Calgary, Alberta: The Canadian Petroleum Association and the Independent Petroleum Association, 1990.

This implementation plan was developed as a mechanism for implementing the 33 recommendations of the Task Force on Oil Spill Preparedness. This plan describes how these recommendations will be included in the daily activities and includes an estimate of implementation costs.

214. Microfiche Comfort

Comfort, G., and W. Purves. *The Behaviour of Crude Oil Spilled Under Multi-Year Ice*. Microfiche. Environmental Protection Service Report Series Ottawa, ON: Environment Protection Service, 1982.

This report contains the results of a study of crude oil in multi-year ice undertaken between 1978 and 1979 in the Norman Wells area. Future research is recommended to assess the damage oil spills can cause in the northern environment.

215. 628.168 33 Arc 1987

Dickens, D.F., L.C. Martin, I.E. Bjerkelund and S.G. Potter. "Environmental Atlas For Beaufort Sea Oil Spill Response." In *Arctic and Marine Oilspill Program Technical Seminar, 10th, Edmonton, Alberta, 1987 Proceedings ...*, 423-447. Ottawa, ON: Minister of Supply and Services, 1987.

This paper reviews an Atlas developed for responding to oil spills in the Beaufort Sea which was compiled from existing data in a concise form that would be usable year-round. The paper explains the concept of environmental sensitivity then describes nine specific areas in the Beaufort that have a high environmental sensitivity rating, the animals that live in these areas, and archaeological and heritage resources found in each area.

216. 551.470 1 Die

Diemand, D., E.M. Reimer, and J.V. Barrie. *Ocean Drifter Studies of Surface Currents Along the Coasts of Newfoundland and Laborador and in the Beaufort Sea: Data Report.* C-CORE Report, no. 82-3. St. John's, NF: Centre For Cold Oceans Resources Engineering, 1982.

This study attempted to duplicate oil spills using plastic draft cards which were released in 1979-1980 and their return rates were analyzed to show what routes a large oil spill was likely to take. The findings in the Beaufort Sea indicated that an oil spill would travel along the north and west coasts of Alaska and the Northwest Territories.

217. 622.338 2 Int 1988

Engelhardt, F.R., and J.P. Ray. *Drilling Wastes: Proceedings of the 1988 International Conference on Drilling Wastes.* London: Elsevier Applied Science, 1989.

This volume contains the proceedings of the 1988 International Conference on Drilling Wastes held in Calgary, Alberta. The papers represent the results of recent studies on drilling wastes which fall into three areas of concern--treatment and control, discharge and monitoring, and testing procedures.

218. Ref 912.136 373 Fenc

Fenco Consultants Ltd. *An Arctic Atlas: Background Information For Developing Marine Oilspill Countermeasures.* Calgary, Alberta: Fenco Consultants Ltd, 1978.

This atlas provides background information for planning response to marine oil spills in the Canadian Arctic. Information is included in the form of maps and graphs on geology, meteorology and oceanography, ice, biological resources, and social concerns.

219. 553.28 Fow

Fowler, B.R., and D. Hope. *Detailed Organic Analysis of Surficial Sediments From Abandoned Arctic Artificial Islands in the Beaufort Sea*. Yellowknife, NWT: Arctic Laboratories Ltd, 1984.

This report analyzes five samples of marine sediments taken near abandoned artificial islands in the Beaufort Sea. The samples were examined for hydrocarbon contamination and hazardous compounds, such as pesticides and PCB.

220. 628.168 33 Guen

Guenettes, C. *Modification and Testing of a Portable Reciprocating Kiln For Cleaning Oiled Sand and Gravel*. Environmental Studies Research Funds Report, no. 119. Calgary, Alberta: Environmental Studies Research Funds, 1992.

This report summarizes the results of a study to redesign a reciprocating kiln used to remove oil from contaminated beach sediment.

221. 551.460 25 Harp

Harper, J.R. *Development of a National Directory of Canadian Marine Oil Spill Specialists*. Environmental Studies Research Funds Report, no. 108. Calgary, Alberta: Environmental Studies Research Funds, 1991.

This report provides a directory of 289 marine oil spill specialists who can be contacted in the event of an oil spill. The report lists information on the specialists profession, specialties, spill experience and regional experience.

222. 333.781 Hut

Hutchinson, T.C. *Recovery of Arctic and Sub-Arctic Vegetation Nine Summers After Crude and Diesel Oil Spills.* Ottawa, ON: Northern Affairs Program, 1984.

This report describes observations of experimental oil spill sites in the Arctic and Subarctic. Sites at Norman Wells and Tuktoyaktuk were studied from six to nine years after the experimental spills. Both sites still showed poor recovery, with lichens and mosses showing particularly poor recovery. Descriptions of recovery rates for species and the differences between summer and winter spills are outlined.

223. 551. 468 7 Wild

Lawrence, M., and S.L. Davies. *Wildlife and Wildlife Habitat Restoration and Compensation in the Event of an Oil Spill in the Beaufort Sea.* Environmental Studies Research Funds Report , no. 109. Calgary, Alberta: Environmental Studies Research Funds, 1993.

This report discusses Section 13 of the Inuvialuit Final Agreement, dealing with wildlife compensation in the event of an oil spill in the Beaufort Sea. Wildlife restoration and cleanup techniques to be used in the event of an oil spill are described in detail.

224. 628.168 33 Arc 1991

LeBlanc, L.A. and P.D. Boehm. "Monitoring Hydrocarbons in Beaufort Sea Sediments and Organisms: Implications For Oil Spill Monitoring." In *Arctic and Marine Oil Spill Program Technical Seminar, 14th, Vancouver, BC, 1991, 131-148.* Ottawa, ON: Supply and Services Canada , 1991.

225. 551.468 7 Bea vol. 1

Lemberg, R. "Amended Version: Comments on "Oil Spill Risk Assessment" Dated September 1983 By Proponents ." In *Beaufort Sea Environmental Assessment Panel Submissions, Vol. 1, Oil Spills, No. 1F, 1983*

This report critiques the "Oil Spill Risk Assessment" report presented to the Beaufort Sea Environmental Review Panel by Dome Petroleum, Esso Resources Canada, and Gulf Canada Resources.

226. 628.168 33 Log

Logan, W.J., D.E. Thornton, and S.L. Ross. *Oil Spill Countermeasures For the Southern Beaufort Sea. Beaufort Sea Technical Report, no. 31a. Victoria, BC: Beaufort Sea Project, 1975.*

The purpose of this study was to investigate the feasibility of controlling and cleaning up oil spills in the Beaufort Sea. Blowout situations are stressed because severe climate conditions in the Beaufort could preclude the possibility of shutting down a blowout that occurred during the winter until the following spring. Spill countermeasures are also discussed including responses under different conditions such as pack ice or landfast ice.

227. PAM 1980-266

Mackay, D., K. Hossain, and W.Y. Shiu. *Analyses of Beaufort Sea and Prudhoe Bay Crude Oils. Toronto, ON: University of Toronto, Dept. Of Chemical Engineering and Applied Chemistry, 1980.*

This report analyses Beaufort Sea and Prudhoe Bay crude oils. Information is included on density, viscosity, solubility, and on techniques for handling oil in the event of a spill.

228. 628.168 33 Arc 1982

Morson, B.J., S.O. Hillman and W.F. Gusey.  
"Alaskan Beaufort Sea Oil Spill Response Considerations Manual." In *Arctic Marine Oilspill Program Technical Seminar, 5th, Edmonton, Alta, 1982, Proceedings ...*, 297-310. Ottawa, ON: Minister of Supply and Services, 1982.

This article describes an oil spill manual designed by the Alaska Beaufort Sea Oil Spill Response Body (ABSORB) for use on the Alaskan North Slope. The manual includes inventories of important biological and socio-cultural resources and areas of particular sensitivity. The manual also provides guidelines for oil spill responses in specific types of environments found on the North Slope.

229. 628.168 33 Nor

NORCOR Engineering and Research Ltd. *The Interaction of Crude Oil With Arctic Sea Ice.* Beaufort Sea Technical Report, no. 27. Victoria, BC: Beaufort Sea Project, 1975.

The report's main purpose was to investigate what would happen if a quantity of crude oil was released under ice in the Beaufort Sea. It was estimated that a substantial spill could accelerate the break-up of an ice sheet by one to three weeks, creating an oil slick as it melted. Burning was found to be the most efficient method of getting rid of the oil in the event of a spill.

230. Microfiche Pro

NORCOR Engineering and Research Ltd. *Probable Behaviour and Fate of a Winter Oil Spill in the Beaufort Sea.* Microfiche. Ottawa, ON: Environment Canada, 1977.

This report uses data from a variety of sources to create a model of how oil would disperse under ice in the event of an oil well blowout in the Beaufort Sea.

231. 628.168 333 Arc 1982

Pope, P.R., S.O. Hillman and L. Safford. "Arctic Coastal Plains Tundra Restoration: A New Application." In *Arctic Marine Oilspill Program Technical Seminar, 5th, Edmonton, Alta, 1982, Proceedings ...*, 93-108. Ottawa, ON: Minister of Supply and Services , 1982.

This article discusses and describes a new technique for rehabilitating tundra that has been damaged by oil pollution.

232. 628.168 33 Arc 1982

Robilliard, G.A. "Oil Spill Protection and Cleanup Countermeasures on Arctic Shorelines: Are They Biologically Necessary?" In *Arctic Marine Oilspill Program Technical Seminar, 5th, Edmonton, Alta 1982, Proceedings ...*, 325-330. Ottawa, ON: Minister of Supply and Services , 1982.

This article argues that oil spills in the Arctic are not a problem because most of the Arctic is not biologically diverse or productive and does not appear to be particularly sensitive to oil spills.

233. 551.343 Ras

Rosenegger, L.W. *The Movement of Oil Under Sea Ice*. Beaufort Sea Technical Report, no. 28. Victoria, BC: Beaufort Sea Project, 1975.

Two different crude oils, were used in a series of experiments to develop an understanding of the possible behaviour of oil under sea ice during a spill.

234. Microfiche SLR

S.L. Ross Environmental Research Ltd. *A Review of Countermeasures For a Major Oil Spill From a Vessel in Arctic Waters.* Microfiche. Ottawa, ON: Environmental Protection Service, 1983.

This report describes government and industry's ability to deal with a major oil spill in the Arctic. The report reviews countermeasures used at tanker spills elsewhere in the world. Then, the best technologies for dealing with spills in the Arctic are described. Finally, potential problems that could result in inadequate responses are discussed.

235. Ref 016.363 739 4 Sele 1980

Samson, A.L. *A Selected Bibliography on the Fate and Effects of Oil Pollution Relevant to the Canadian Marine Environment.* 2nd ed. Economic and Technical Review Report, no. EPS-3-EC-80-5. Ottawa, ON: Environment Protection Service, 1980.

236. Microfiche Swiss

Swiss, J.J., and N. Vanderkooy. *Beaufort Sea Dispersant Trial.* Microfiche. Environmental Studies Research Fund Report, no. 100. Calgary, Alberta: Environmental Studies Research Funds, 1988.

237. 622.338 2 Top

Topham, D.R. *Hydrodynamics of an Oilwell Blowout.* Beaufort Sea Technical Report, no. 33. Victoria, BC: Beaufort Sea Project, 1975.

Experiments were conducted to study the effects of an undersea oil well blowout in the Beaufort Sea.



238. 551.468 7 Beauf 1990

United States. Minerals Management Service.  
Alaska OCS Region. *Beaufort Sea Planning Area  
Oil and Gas Lease Sale 124: Final Environmental  
Statement.* OCS EIS/EA, MMS 90-0063. Anchorage,  
Alaska: Alaska OCS Region, 1990.

This is the final environmental impact statement  
for the lease sale for area 124 in the Alaskan  
Beaufort Sea. Includes detailed impact statements  
and alternatives to the proposed drilling  
activities.

239. PAM ND-669

United States. Minerals Management Service.  
Office of Policy and Planning. *Offshore Oil  
Terminals: Potential Role in U.S. Petroleum  
Distribution.* OCS Report, MMS 90-0014.  
Anchorage, AK: Minerals Management Service,  
Office of Policy and Planning, 1990.

This report discusses the need for offshore oil  
terminals and how they could be effective in  
avoiding spills caused by tanker collisions. The  
design, feasibility, locations, and possible ways  
to finance such terminals are discussed. The  
existing petroleum distribution network in the  
United States is also described.

240. 551.468 7 Tar

Wong, C.S., D. MacDonald, and W.J. Cretney. *Tar  
and Particulate Pollutants Along the Beaufort Sea  
Coast.* Beaufort Sea Technical Report , no. 13.  
Ottawa, ON: Beaufort Sea Project , 1976.

The occurrence of tar and particulate pollutants  
on the Beaufort Sea coast were studied to  
establish a baseline distribution of particulate  
pollution in the Beaufort Sea marine environment,  
to find areas with natural seepage of crude oil,  
and to establish the chemical characteristics of  
hydrocarbons in present-day beach and nearshore  
sediment and marine organisms.

241. 628.168 33 YHE 1990

Yapa, P.D., and T. Chowdhury. "Spreading of Oil Spilled Under Ice" *Journal of Hydraulic Engineering* 116, no. 12 (December 1990): 1468-1483.

This article presents a set of mathematical equations that describe the phenomenon of oil spreading under ice in calm waters which could be used to predict the behaviour of oil in spill situations, for use in cleanup activities and environmental assessment studies.

## Parks and Wildlife Refuges

242. PAM 1986-261

Alexander, S. "Arctic Walkabout: A Journey From the Mountains to the Sea" *Wilderness* 50, no. 174 (Fall 1986): 21-28.

This article describes a 60 mile long hike made by Susan Alexander through the Arctic National Wildlife Refuge. Alexander describes the weather, landscapes, and wildlife she encounters on her journey which began and ended in Kaktovik, Alaska.

243. 333.78 Br

Arctic International Wildlife Range Conference (1970 : Whitehorse, Yukon). *Proceedings of the Arctic International Wildlife Range Conference, Oct. 21 and 22, 1970*. Vancouver, BC: UBC Law Review, 1971.

244. Microfiche Bankes

Bankes, N.D. *The International Law of Shared Natural Resources: A Case Study of an International Wildlife Range Between Alaska and the Yukon*. Canadian Theses, no. 49894. Ottawa, ON: National Library of Canada, 1980.

245. PAM 1992-244

Canada. Parks Service. *Ivvavik*. Ottawa: Environment Canada, 1992.

The brochure, written in Inuvialuktun, describes the Ivvavik National Park.

246. PAM 1988-168

Canadian Parks Service. *Northern Yukon National Park: Interim Management Guidelines*. Ottawa, ON: Canadian Parks Service, 1988.

247. Microfilm P-5, Reel #53

Crow, P., and B. Williams. "Prudhoe Bay 'Pollution' Cited As Reason to Block ANWR Access" *Oil and Gas Journal* 86, no. 5 (February 1, 1988): 14-17.

The environmental movement's objections to allowing oil exploration in the Arctic National Wildlife Refuge are discussed and refuted. Pollution problems such as drilling wastes, air and water quality, and oil spills are reviewed.

248. PAM 1988-165

Farneski, A. "A Gathering For the People's Sake: The Gwich'in Indian Nation Unites to Face Threats to Its Future" *Heartland Magazine, Fairbanks Daily News-Miner* 5, no. 26 (June 26, 1988)

This article describes the Gwich'in gathering held in Arctic Village, Alaska in the summer of 1988, and summarizes the Gwich'in Nation's opposition to oil and gas development in the Arctic National Wildlife Refuge. Information is also included on the importance of the Porcupine Caribou Herd to Gwich'in communities.

249. PAM 1987-275

Frazier, D. "Edge of the Arctic" *National Parks* (Nov/Dec 1987): 18-23.

This article provides a comprehensive look at the issue of oil and gas development in the Arctic National Wildlife Refuge. The author opposes such development and musters a good deal of evidence to bolster his position.

250. Ref 016.971 9 Ingram

Ingram, R., and H. Dobrowolsky. *Herschel Island: An Annotated Bibliography*. Whitehorse, Yukon: Yukon Heritage Branch, 1989.

251. 333.78 Hers

J.S. Peepre and Associates. *Herschel Island-Qikiqtaruk Interpretive Strategy*. Whitehorse, Yukon: Parks and Outdoor Recreation Planning, 1990.

252. PAM 1986-261

Jackson, D.D. "The Floor of Creation: An Overview" *Wilderness* 50, no. 174 (Fall 1986): 12-20.

This article describes the Arctic National Wildlife Refuge including its history, physical setting and a discussion of how oil and gas development could effect it.

253. 971.91 Nagy 1991

Nagy, M. *Qikiqtaruk (Herschel Island) Cultural Study: Final Report*. Whitehorse, Yukon: Yukon Heritage Branch, 1991.

254. PAM 1983-218

North Slope Project Review Group. *Proposed National Park For Northern Yukon, Outline For Presentation to the North Slope Project Review Group, Whitehorse, October 7, 1983*. [Whitehorse, YT]: The Review Group, 1983.

This presentation discusses the boundaries of the Northern Yukon National Park, focusing on the criterion for including areas within the park boundaries. The presentation includes descriptions of unique geographical features and ecozones of the North Yukon.

255. PAM 1991-234

Speer, L. *Tracking Arctic Oil: The Environmental Price of Drilling the Arctic National Wildlife Refuge*. Washington, DC: National Wildlife Federation, 1991.

This report presents a strong case against oil and gas development in the Arctic National Wildlife Refuge. Descriptions of the Refuge, North Slope oil production, and the pollution are provided and the final recommendation of energy conservation is outlined.

256. PAM 1987-272

Udall, M. "Staking Out the Last Frontier" *National Parks* (Nov/Dec 1987): 16-17.

257. PAM ND-670

Yapp, G. *Northern Yukon National Park - Boundary Revisions*. s.l.: s.n., 1983.

This paper provides a detailed discussion of the boundaries of the Northern Yukon National Park and the reasoning behind including or excluding areas from the park.

258. PAM 1991-302

Yukon Territory. Dept. Of Renewable Resources. *Herschel Island Territorial Park: Management Plan*. Whitehorse, Yukon: Yukon Renewable Resources, 1991.

This management plan for Herschel Island Territorial Park was prepared by a joint planning committee made up of representatives of the Yukon government and the Inuvialuit. Topics outlined are park zoning, natural resource management, and cultural resource management.

## Physical Processes

259. 912.719 Air

Aird, W.J., and S.P. Pierce. *Remote Sensing Data Summary: Mackenzie Delta - Beaufort Sea - Herschel Island - Sachs Harbour*. Ottawa, ON: Environmental Protection Service, 1976.

This report describes the remote sensing data up to 1975 available at the National Air Photo Library covering the Mackenzie Delta-Beaufort Sea- Herschel Island-Sachs Harbour area.

260. Microfiche All

Allen, D.M. *The Permafrost Regime in the Mackenzie Delta-Beaufort Sea Region, NWT and Its Paleoclimatic Implications*. Canadian Thesis. Ottawa, ON: National Library of Canada, 1988.

261. 557 P89-1G

Bamber, E.W. "A Summary of Carboniferous and Permian Biostratigraphy, Northern Yukon Territory and Northwest District of Mackenzie." In *Current Research, Geological Survey of Canada, Part G, Paper 89-1G*, 13-21. Ottawa, ON: Geological Survey of Canada, 1989.

262. PAM 1987-266

Barnes, P.W. and E. Reimnitz. "Construction of an Arctic Barrier Island By Alternating Sea-Ice Pileup and Overwash." In *Geologic Studies in Alaska By the U.S. Geological Survey During 1987 (USG Survey Bulletin Circular 1016)*, 180-182.

This paper describes the geology of Icy Reef, an arctic barrier island located along the North Slope of Alaska. The paper describes the general geology of the North Slope and provides detailed information on the morphology, construction and stability of Icy Reef.

263. 557.19 Symp 1973

Bell, J.S. "Late-Paleozoic Orogeny in the Northern Yukon." In *Symposium on the Geology of the Canadian Arctic (1973 : Saskatoon, Sask)*, Proceedings, 23-38. Calgary, Alta: Canadian Society of Petroleum Geologists, 1973.

This paper discusses the late-Paleozoic mountain formation that took place in the Northern Yukon, Northwest Territories and Alaska more than 200 million years ago. Various theories as to how mountain ranges were formed in the North Yukon are described and evaluated. Illustrated with maps, diagrams, and drawings.

264. 560 Pala no. 8

Braman, D.R., and L.V. Hills. *Upper Devonian and Lower Carboniferous Miospores, Western District of Mackenzie and Yukon Territory, Canada*. Palaeontographica Canadian, no. 8. Calgary, Alberta: Canadian Society of Petroleum Geologists, 1992.

This report describes miospores from the Upper Devonian and Lower Carboniferous era in the western District of Mackenzie and Yukon Territory. These miospores appear in the Imperial and Tuttle formations, potential hydrocarbon reservoirs.

265. 557 P89-1D

Burn, C.R. "Frost Heave of Subaqueous Lake-Bottom Sediments, Mackenzie Delta, Northwest Territories." In *Current Research, Geological Survey of Canada, Part D, Paper 89-1D*, 85-93. Ottawa, ON: Geological Survey of Canada, 1989.

This paper summarizes the results of a study of frost heave in lake-bottom sediments in two lakes near Inuvik, Northwest Territories in the winter of 1987-1988.



266. Ref 551.700 971 Lex

Canadian Society of Petroleum Geologists.  
*Lexicon of Canadian Stratigraphy.* vol. 1-2.  
Calgary, Alberta: Canadian Society of Petroleum  
Geologists, 1981 -.

These volumes provide an alphabetical listing and description of groups, formations, and members for the District of Mackenzie and Arctic Islands that have appeared in the geological literature. Each entry describes a specific formation or group including information on its locality, history of research, description of the rocks found in the formation, its thickness and distribution, and its relation to other geologic units.

267. 557 P88-1D

Cecile, M. "Corridor Traverse Through Barn Mountains, Northernmost Yukon." In *Current Research, Geological Survey of Canada, Part D, Paper 88-1D*, 99-103. Ottawa: Geological Survey of Canada, 1988.

268. 627.58 Arct

Chen, A.T., and C.B. Leidersdorf. *Arctic Coastal Processes and Slope Protection Design.* New York, N.Y.: American Society of Civil Engineers, 1988.

This volume includes a collection of technical papers on Arctic coastal processes and designs for slope protection.

269. 557 P80-1A

Costaschuk, S.M. "Heavy Mineral Analysis of Southern Beaufort Sea Sediments." In *Current Research, Part A, Geological Survey of Canada, Paper 80-1A*, 241-252. Ottawa, ON: Geological Survey of Canada, 1980.

This paper describes the distribution of heavy minerals in Beaufort Sea sands, and relates this distribution to the local and regional geology of the Beaufort Basin. Designed to provide essential baseline data from research and survey programs in order to evaluate environmental hazards related to exploratory and production drilling by the petroleum industry.

270. 551.460 809 327 Craig

Craig, J.D., K.W. Sherwood, and P.P. Johnson. *Geologic Report For the Beaufort Sea Planning Area, Alaska: Regional Geology, Petroleum Geology, Environmental Geology*. OCS Study, MMS-85-0111. Anchorage, Alaska: Minerals Management Service, Alaska OCS Region, 1985.

This report provides a comprehensive description of the geology of the Alaskan Beaufort Sea. Includes sections on the regional geology, including stratigraphy and seismic stratigraphy, petroleum geology, including exploration history and potential reservoir formations and environmental geology, including ice and surface sediments.

271. 551.460 833 27 Dal

Dallimore, S.R. *Geological, Geotechnical and Geophysical Studies Along an Onshore-Offshore Transect of the Beaufort Shelf*. Ottawa, ON: Geological Survey of Canada, 1991.

This technical report contains information on the geology and geochemistry of the Beaufort Sea. Detailed data are included on permafrost, sedimentation, and other physical processes.

272. 557 P89-1G

Davies, E.H. and T.P. Poulton. "Thermal Maturation Data From the Jurassic Rocks of Northern Yukon and Adjacent Northwest Territories." In *Current Research, Geological Survey of Canada, Part G, Paper 89-1G*, 31-36. Ottawa, ON: Geological Survey Oil Canada, 1989.

This article describes the thermal qualities of Jurassic rocks found in the northern Yukon and the adjacent Northwest Territories.

273. 557 P84-1B

Dawson, M.R., R.M. West and L.J. Hickey. "Paleontological Evidence Relating to the Distribution and Paleoenvironments of the Eureka Sound and Beaufort Formations, Northeastern Banks Island, Arctic Canada." In *Current Research, Part B, Geological Survey of Canada, Paper 84-1B*, 359-361. Ottawa: Geological Survey of Canada, 1984.

274. 551.342 Aer

Dickens, D.F. *Aerial Reconnaissance Survey of Ice Break-Up Processes in the Canadian Beaufort Sea Coastal Zone*. Vancouver, BC: The Associates, 1987.

This report documents aerial surveys during break-up of the Beaufort Sea ice along the Yukon coast, Mackenzie Delta, and Tuktoyaktuk Peninsula from May 31 to June 21, 1987. The main purpose of the surveys was to study the effect of ice on the coastal sediment transport processes in the Beaufort Sea. Strudel scour features were documented for the first time during this study.

275. 557 P89-1G

Dietrich, J.R., D.H. Dixon and D.J. McIntyre.  
"The Geology, Biostratigraphy and Organic  
Geochemistry of the Natsek E-56 and Edlok N-56  
Wells, Western Beaufort Sea." In *Current  
Research, Geological Survey of Canada, Part G,  
Paper 89-1G*, 133-157. Ottawa, ON: Geological  
Survey of Canada, 1989.

This report describes the lithology, microfossil  
content, geochemical characteristics, and seismic  
expressions of the stratigraphic units penetrated  
by these wells.

276. 557 P85-1A

Dietrich, J.R., J. Dixon and D.H. McNeil.  
"Sequence Analysis and Nomenclature of Upper  
Cretaceous to Holocene Strata in the  
Beaufort-Mackenzie Basin." In *Current Research,  
Geological Survey of Canada, Part A, Paper 85-1A*,  
613-628. Ottawa: Geological Survey of Canada,  
1985.

This paper describes eleven seismic sequences of  
the Beaufort-Mackenzie basin. These sequences  
have been identified using reflection seismic  
profiles, well data, and to a lesser extent,  
outcrop data.

277. 557 P79-1C

Dixon, J. and L.R. Snowdon. "Geology and Organic  
Geochemistry of the Dome Hunt Nektoralik K-59  
Well, Beaufort Sea." In *Current Research, Part  
C, Geological Survey of Canada, Paper 79-1C*,  
85-90. Ottawa: Geological Survey of Canada,  
1979.

278. 557 P86-1B vol. 1

Dixon, J. "Comments on the Stratigraphy, Sedimentology and Distribution of the Albian Sharp Mountain Formation, Northern Yukon." In *Current Research, Geological Survey of Canada, Part B, Paper 86- 1B*, 375-381. Ottawa: Geological Survey of Canada , 1986.

This article describes the stratigraphy, sedimentology and distribution of the Albian Sharp Mountain Formation, northern Yukon.

279. 622.338 2 Dixon

Dixon, J. *Stratigraphic Tops in Wells From the Beaufort-Mackenzie Area, Northwest Canada*. GSC Open File, no. 2310. Calgary, Alberta : Institute of Sedimentary and Petroleum Geology, 1990.

280. 551.470 2 Cur

Fissel, D.B., and O.J. Byrne. *Current and Directional Wave Measurements, in the Beaufort Sea Coastal Zone: August-September 1987*. Dartmouth, N.S: Arctic Sciences Ltd., 1988.

This study reports on current and wave data collected during a 21 day period along the coast of the Beaufort Sea near the Mackenzie Delta. The main purpose of the study was to investigate sediment transport in the Mackenzie Delta region. The knowledge of sediment transport is valuable for engineering purposes related to hydrocarbon exploration.

281. 557 P80-1B

Forbes, D.L. "Late Quaternary Sea Levels in the Southern Beaufort Sea." In *Current Research, Geological Survey of Canada, Part B, Paper 80-1B*, 75-87. Ottawa: Geological Survey of Canada , 1980.

This paper attempts to compile data related to the late Quaternary changes in sea level in the Mackenzie Delta and other parts of the southern Beaufort Sea. This information is valuable for the study of ice loading, submarine permafrost, and ice scouring.

282. 574.526 Gil

Gillie, R.D. *Report: Beaufort Sea Coastal Morphology Study*. Dartmouth, NS: Geological Survey of Canada, 1987.

283. PAM 1988-176

Grantz, A., S.D. May and D.A. Dinter. "Geologic Framework, Petroleum Potential and Environmental Geology of the United States Beaufort and Northeasternmost Chukchi Seas." In *Geology and Exploration of the National Petroleum Reserve in Alaska, 1974 to 1982 (US Geological Survey Professional Paper, 1399)*, Chapter 11, 231-255.

284. 557 P85-1A

Harry, D., H. French and W. Pollard. "Ice Wedges and Permafrost Conditions Near King Point, Beaufort Sea Coast, Yukon Territory." In *Current Research, Geological Survey of Canada, Part A, Paper 85-1A*, 111-116. Ottawa: Geological Survey of Canada, 1985.

This paper describes the characteristics and growth patterns of ice wedges near King Point.

285. Pam 1990-233

Hequette, A., and P.W. Barnes. "Coastal Retreat and Shoreface Profile Variations in the Canadian Beaufort Sea" *Beaufort Sea Coastal Zone, Marine Geology (Special Section) 91* (1990): 113- 132.

286. PAM 1989-199

Hequette, A., and P.R. Hill. "Late Quaternary Seismic Stratigraphy of the Inner Shelf Seaward of the Tuktoyaktuk Peninsula, Canadian Beaufort Sea." *Canadian Journal of Earth Sciences* 26, no. 10 (October 1989): 190-202.

This paper describes the sediments seaward of the Tuktoyaktuk Peninsula in the Canadian Beaufort Sea. High resolution seismic records were used to determine the stratigraphy of this area which provided evidence for a Late Wisconsinian time period.

287. PAM 1991-313

Hequette, A., and M.H. Ruz. "Spit and Barrier Island Migration in the Southeastern Canadian Beaufort Sea" *Journal of Coastal Research* 7, no. 3 (Summer 1991): 677-698.

288. PAM 1989-226

Hequette, A. "L'influence De La Glace De Mer Sur L'erosion Littorale En Mer De Beaufort Canadienne" *Revue De Geomorphologie Dynamique* 38, no. 3 (1989): 81-98.

289. 551.460 809 327 Geol

Hill, P.R., A. Hequette, and M.H. Ruz. *Geological Investigations of the Canadian Beaufort Sea Coast*. GSC Open File Report, no. 2387. Ottawa, ON: Geological Survey of Canada, 1991.

The book summarizes the findings of geological, geophysical, and geotechnical research on the coastal zone of the Canadian Beaufort Sea. Detailed descriptions are provided of the geology of the Beaufort Sea from the Yukon-Alaska border to the Tuktoyaktuk peninsula, including the Mackenzie Delta. Illustrated with maps, drawings, and photographs.

290. PAM 1989-227

Hill, P.R., and O.C. Nadeau. "Storm-Dominated Sedimentation on the Inner Shelf of the Canadian Beaufort Sea" *Journal of Sedimentary Petrology* 59, no. 3 (May 1989): 455-468.

291. 551.457 Hill 1987

Hill, P.R. *Beaufort Sea Coastal Zone Geotechnics*. Ottawa, ON: Geological Survey of Canada, 1987.

This volume contains reports on field programs carried out during the summer of 1987 under the Geological Survey of Canada's Beaufort Sea Coastal Zone Geotechnics Project. Reports included deal with the Mackenzie Delta, the Tuktoyaktuk Peninsula, Tibjak Beach, and the Amauligak F-24 wellsite. Includes charts, graphs, and maps.

292. PAM 1990-236

Hill, P.R. "Coastal Geology of the King Point Area, Yukon Territory, Canada " *Beaufort Sea Coastal Zone, Marine Geology (Special Section)* 91 (1990): 93-111.

This paper describes the geology of the King Point area of the Yukon's North Slope. The coastal system at King Point provides an important example of gravel-rich barrier development.

293. 551.384 Occur

Hunter, J., A. Judge, and H.A. MacAulay. *The Occurrence of Permafrost and Frozen Sub-Seabottom Materials in the Southern Beaufort Sea*. Beaufort Sea Technical Report, no. 22. Victoria, BC: Beaufort Sea Project, Dept. of the Environment, 1976.

This report describes permafrost in the Canadian Beaufort Sea continental shelf. The distribution of permafrost and its relationship with known geological and geomorphological features is described.



294. 557 P82-1B

Hunter, J. and H.A. MacAulay. "Some Observations of Up-Hole Seismic Velocities and Permafrost Temperatures in Mackenzie Delta Sediments." In *Current Research, Geological Survey of Canada, Part B, Paper 82-1B*, 287-290. Ottawa: Geological Survey of Canada, 1982.

This article describes observations of permafrost temperatures in the Mackenzie Delta based on data from seismic surveys.

295. 557.19 Symp 1973

Kurfurst, P.J., R.M. Isaacs and J. Hunter. "Permafrost Studies in the Norman Wells Region, Northwest Territories." In *Symposium on the Geology of the Canadian Arctic, 1973, Proceedings*, 277-299. Calgary, Alta: Canadian Society of Petroleum Geologists, 1973.

This paper describes a study of the effects that the construction of the Canol Road had on permafrost in the Norman Wells area. The paper briefly describes the Norman Wells area and the construction and present condition of the Canol Road and concludes that the construction of the Canol Road has caused warming and, in some cases, thawing of permafrost and that any other increases in ground surface temperature caused by disturbances to vegetation in the Norman Wells area could cause similar problems.

296. 557 P88-1D

Lane, L. "The Rapid Fault Array: A Foldbelt in Arctic Yukon." In *Current Research, Geological Survey of Canada, Part D, Paper 88-1D*, 95-98. Ottawa: Geological Survey of Canada, 1988.

297. 557 P89-1G

Lane, L.S. and M.P. Cecile. "Stratigraphy and Structure of the Neruokpuk Formation, Northern Yukon." In *Current Research, Geological Survey of Canada, Part G, Paper 89-1G*, 57-62. Ottawa, ON: Geological Survey of Canada, 1989.

This brief article describes the geological history of the Neruokpuk Formation on the Yukon North Slope. The stratigraphy and structure of the formation is described and the paper concludes that the formation is of Cambrian or Devonian age underlain by rocks that are Paleozoic in age.

298. 557 P84-1A

Lawrence, M., B.R. Pelletier and G Lacko. "Sediment Sampling of Beaches Along the Mackenzie Delta and Tuktoyaktuk Peninsula, Beaufort Sea." In *Current Research, Geological Survey of Canada, Part A, Paper 84-1A*, 633-640. Ottawa: Geological Survey of Canada, 1984.

This paper describes sixteen beaches along the southeastern Beaufort Sea including information on morphology, erosion, and sediment transport. The study was part of a large fisheries research program designed to gather information on beach sensitivity to erosion and oil contamination and to make recommendations on various clean-up techniques to be used in the event of an oil spill.

299. 551.460 833 27 Lew

Lewis, C.P., and D.L. Forbes. *Coastal Sedimentary Processes and Sediments, Southern Canadian Beaufort Sea*. Beaufort Sea Technical Report, no. 24. Victoria, BC: Beaufort Sea Project, 1976.

The purpose of this report is to study coastal processes such as erosion and sediment transport at representative sites in the Beaufort Sea region, including Kay Point, Babbage River delta, and Phillips Bay. The report is also intended to identify areas that would be susceptible to inundation by sea water, which could be damaged more severely in the event of an oil spill. The implications of offshore drilling and hydrocarbon development for coastal processes are discussed in an appendix.

300. PAM 1989-224

Mackay, J.R., and O. Slaymaker. "The Horton River Breakthrough and Resulting Geomorphic Changes in a Permafrost Environment, Western Arctic Coast, Canada" *Geografiska Annaler* 71A, no. 3-4 (1989): 171-184.

The Horton River now flows into Franklin Bay, but it previously flowed into Harrowby Bay approximately 60 kilometres northwest of the present mouth. The paper describes the geological processes involved in this event and discusses the implications this has for the study of river ice and permafrost in the North.

301. 557 P88-1D

Mackay, J.R. "Catastrophic Lake Drainage, Tuktoyaktuk Peninsula Area, District of Mackenzie." In *Current Research, Geological Survey of Canada, Part D, Paper 88-1D*, 83-90. Ottawa: Geological Survey of Canada, 1988.

This paper describes the process of lake draining in the Tuktoyaktuk Peninsula. Data on lake drainage was collected from field studies and a comparison of NTS 1:250,000 maps prepared from 1950 air photographs with 1986 lansat imagery. The sensitivity of lakes to ice-wedges drainage is an important factor to be considered in any future development activities in the area, such as the building of roads or pipelines.

302. 557 P84-1B

Mackay, J.R. "Lake Bottom Heave in Permafrost: Illosarvik Drained Lake Site, Richards Island, Northwest Territories." In *Current Research, Geological Survey of Canada, Part B, Paper 84-1B*, 173-177. Ottawa: Geological Survey of Canada, 1984.

This article summarizes the results of a study of permafrost in an artificially drained lake on Richards Island near the Tuktoyaktuk Peninsula. The study examined the growth of permafrost and lake bottom heave resulting from permafrost growth.

303. 557 P89-1G

Majorowicz, J.A. and J.R. Dietrich. "Comparison of the Geothermal and Organic Maturation Gradients of the Central and Southwest Beaufort-Mackenzie Basin, Yukon and Northwest Territories." In *Current Research, Geological Survey of Canada, Part G, Paper 89-1G*, 63-67. Ottawa, ON: Geological Survey of Canada, 1989.

This brief article compares the geothermal and physical history of the Yukon North Slope and Mackenzie Delta using information on bottom-hole temperatures and rock data from 34 exploration wells in the region. The article concludes that while both areas have a very similar geothermal history, the Yukon North Slope has been subjected to more erosion than the Mackenzie Delta.

304. 557 P80-32

McNeil, D.H., N.S. Ioannides, and J. Dixon. *Geology and Biostratigraphy of the Dome Gulf Et Al. Ukalirk C-50 Well, Beaufort Sea*. GSC Paper, no. 80-32. Ottawa, ON: Geological Survey of Canada, 1982.

This report presents the preliminary lithostratigraphic and biostratigraphic results of a study based on the sampled cuttings and mechanical logs of the Ukalirk C-50 well.

305. 557 P89-1G

McNeil, D.H. "Foraminiferal Zonation and Biofacies Analysis of Cenozoic Strata in the Beaufort-Mackenzie Basin of Arctic Canada." In *Current Research, Geological Survey of Canada, Part G, Paper 89-1G*, 203-223. Ottawa: Energy Mines and Resources Canada, 1989.

306. 559.8 Inte 1981

Metz, P., A. Egan and O. Johansen. "Landsat Linear Features and Incipient Rift System Model For the Origin of Base Metal and Petroleum Resources of Northern Alaska." In *Arctic Geology and Geophysics: Proceedings of the Third International Symposium on Arctic Geology*, 101-112. Calgary, Alberta: Canadian Society of Petroleum Geologists, 1982.

This article uses Landsat data, petrologic evidence, and limited geophysical data to present a model for the origin of major oil, gas, and base metal deposits in northern Alaska.

307. 557 P86-1B vol. 2

Morgan, P. "Sediment Transport Study At King Point, Yukon Territory." In *Current Research, Geology Survey of Canada, Part B, Paper 86-1B, Vol. 2*, 859-863. Ottawa, ON: Geological Survey of Canada, 1986.

This article summarizes the results of a study conducted at King Point in the North Yukon to collect sediment transport and coastal zone data. Nearshore directional wave measurements wind speed and direction, bottom current velocities and directions, sediment samples and beach and bathymetric profiles were collected. This data will be used to adjust mathematical models for predicting wave climate and alongshore sediment transport rates and directions.

308. 559.8 Inte 1981

Nentwich, F.W. and R.W. Yole. "Sedimentary Petrology and Stratigraphic Analysis of the Subsurface Reindeer Formation (Early Tertiary)." In *Arctic Geology and Geophysics: Proceedings of the Third International Symposium on Arctic Geology*, 55-81. Calgary, Alberta: Canadian Society of Petroleum Geologists, 1982.

This article describes the Reindeer Formation which consists mainly of sandstone, shale and mudstone.

309. 557 P85-1B vol. 1

Norris, D.K. "The Neruokpuk Formation, Yukon Territory and Alaska." In *Current Research, Geological Survey of Canada, Part B, Paper 85-1B, Vol. 1*, 223-229. Ottawa, ON: Geological Survey of Canada, 1985.

310. 557 P79-1C

Norris, D.K. "A New Mineral Occurrence of Unknown Economic Potential in Northern Yukon Territory." In *Current Research, Geological Survey of Canada, Part B, Paper 79-1C*, 103-104. Ottawa: Geological Survey of Canada, 1979.

311. 910.971 9 Rep vol. 11 pt. A

O'Neill, J.J. *The Geology of the Arctic Coast of Canada, West of the Kent Peninsula*. Report of the Canadian Arctic Expedition, 1913-18: vol. XI: Geology and Geography Ottawa: F.A. Acland, 1924.

This report describes the physical geology of the Arctic coast of Canada, including the Yukon North Slope. Descriptions are included of the topography and geology of Herschel Island, the Firth River, and the Mackenzie Delta. Illustrated with photographs and drawings.

312. REF 912.155 719 Mari

Pelletier, B.R. *Marine Science Atlas of the Beaufort Sea: Geology and Geophysics*. GSC Miscellaneous Report, no. 40. Ottawa, ON: Geological Survey of Canada, 1987.

This atlas illustrates the geological history of the region along with the current surface geology, ice, permafrost and seismic activity in the area.

313. Ref 912.155 146 Marin

Pelletier, B.R. *Marine Science Atlas of the Beaufort Sea: Sediments*. GSC Miscellaneous Report, no. 38. Ottawa, ON: Geological Survey of Canada, 1984.

Includes maps portraying sediments in the Beaufort Sea region and photographs of coastal features of the Yukon North Slope, Mackenzie Delta, and Tuktoyaktuk Peninsula.

314. 551.460 83 Pel

Pelletier, B.R. *Sediment Dispersal in the Southern Beaufort Sea*. Beaufort Sea Technical Report, no. 25a. Victoria, BC: Beaufort Sea Project, 1975.

Sediment samples from cores and grab samples collected between 1970-1975, from the MacKenzie River system, were analyzed and areas of differing sedimentation were identified and mapped.

315. 551.304 Pin

Pinchin, B.M. *Beaufort Sea Coastal Sediment Study*. Thornhill, ON: Keith Philpott Consulting Limited, 1985.

This report describes coastal processes at King Point on the Yukon North Slope. The report's main objective is to provide information on the Beaufort Sea coastal zone for land use planning and to facilitate the design of shore-based facilities. Information is included on waves, wave hindcasting, sedimentation, and other coastal processes.

316. 557 P85-1A

Poley, D.F. and D.C. Lawton. "Acquisition and Processing of High Resolution Reflection Seismic Data From Permafrost Affected Areas of the Canadian Part of the Beaufort Sea." In *Current Research, Geological Survey of Canada, Part B, Paper 85-1A*, 491-498. Ottawa, ON: Geological Survey of Canada, 1985.

This technical article is intended to improve knowledge of the distribution and behaviour of shallow permafrost on the Beaufort Sea continental shelf. The article re-evaluates seismic data collection, processing, and interpretation techniques. This information is essential to planning the location of oil and gas development facilities such as pipelines, artificial islands.

317. 557 P89-1G

Poulton, T.P. "Current Status of Jurassic Biostratigraphy and Stratigraphy, Northern Yukon and Adjacent Mackenzie Delta." In *Current Research, Geological Survey of Canada, Part G, Paper 89-1G*, 25-30. Ottawa, ON: Geological Survey of Canada, 1989.

This paper describes recent advances in knowledge of the Jurassic stratigraphy of Northern Yukon and the neighbouring Northwest Territories. The paper describes the palaeontology, biostratigraphy, lithostratigraphy, tectonics, and paleogeography of the region. Information is included on ammonites and other fossils that have helped to establish relationships between strata.

318. 553.280 971 Symp 1983

Poulton, T.P. "The Jurassic of the Canadian Western Interior, From 49 N Latitude to Beaufort Sea." In *The Mesozoic of Middle North America: A Selection of Papers From the Symposium on the Mesozoic of Middle North America, Calgary, Alta, Canada, May 1983*, 15-41. Calgary, Alberta: Canadian Society of Petroleum Geologists, 1984.



319. 559.8 Inte 1981

Poulton, T.P. "Paleogeographic and Tectonic Implications of the Lower and Middle Jurassic Facies Patterns in Northern Yukon Territory and Adjacent Northwest Territories." In *Arctic Geology and Geophysics: Proceedings of the Third International Symposium on Arctic Geology, 13-27*. Calgary, Alberta: Canadian Society of Petroleum Geologists, 1982.

320. Microfiche Rampton

Rampton, V.N. *Quaternary Geology of the Tuktoyaktuk Coastlands, Northwest Territories*. Microfiche. GSC Memoir, no. 423. Ottawa, ON: Geological Survey of Canada, 1988.

This report presents a comprehensive overview of the quaternary geology and morphology of the Tuktoyaktuk coastlands based on research undertaken during the past 30 years. Permafrost, ground ice, and other related phenomenon are also described, along with their effects on construction and human activities.

321. Periodical

Reimnitz, E., P.W. Barnes, and W.S. Weber. "Particulate Matter in Pack Ice of the Beaufort Gyre" *Journal of Glaciology* 39, no. 131 (1993): 186-198.

This paper contains the results of a study of the Beaufort Gyre in 1988 which analyzed sediment collected from sea ice at a number of sites in the Beaufort Sea. The samples were analyzed for carbon content and minerals and a wide variety of diatoms and microfossils were also identified.

322. PAM 1991-311

Scherr, J., S.M. Banet, and B.J. Bascle.  
*Correlation Study of Selected Exploration Wells  
From the North Slope and Beaufort Sea, Alaska.*  
OCS Report, MMS 91-0076. Anchorage, Alaska: US  
Minerals Management Service, 1991.

This study presents a comprehensive  
interpretation of the geology and geophysics of  
the Alaska North Slope and adjoining Beaufort  
Sea.

323. PAM 1985-246

Smith, M.W. "Observations of Soil Freezing and  
Frost Heave At Inuvik, Northwest Territories,  
Canada" *Canadian Journal of Earth Sciences* 22,  
no. 2 (1985): 283-290.

324. 622.338 2 Snow

Snowdon, L.R. *RockEval/TOC Results From 29  
Beaufort-Mackenzie Wells.* GSC Open File Report,  
no. 2192. Calgary, Alberta: Geological Survey of  
Canada, 1990.

This report contains unedited Rock-Eval/TOC data  
from 29 Beaufort-Mackenzie oil wells. Includes  
tables and log plots.

325. 557 P88-1D

Taylor, A. and A. Judge. "Reconstruction of  
Marine Transgression History From an Offshore  
Ground Temperature Profile, Esso Angasak L-03  
Wellsite, Beaufort Sea." In *Current Research,  
Geological Survey of Canada, Part D, Paper 88-1D,*  
137-142. Ottawa: Geological Survey of Canada,  
1988.

This paper describes a marine transgression that  
occurred at least 300 years ago. Marine  
transgressions are major thermal events that  
occur when sea water near its freezing point  
encroaches on a permafrost landscape. The  
history of this transgression was preserved and  
discovered at a geotechnical borehole at Esso's  
Angasak L-03 wellsite.

326. 557 P89-1D

Taylor, A., A. Judge and V. Allen. "Recovery of Precise Offshore Permafrost Temperatures From a Deep Geotechnical Hole, Canadian Beaufort Sea." In *Current Research, Geological Survey of Canada, Part D, Paper 89-1D*, 119-123. Ottawa: Geological Survey of Canada, 1989.

This article describes how precise offshore permafrost temperatures were recovered from a deep geotechnical hole in the Canadian Beaufort Sea.

327. 557 P79-1B

Wahlgren, R.V. "Ice-Scour Tracks in Eastern Mackenzie Bay and North of Pullen Island, Beaufort Sea." In *Current Research, Geological Survey of Canada, Part B, Paper 79-1B*, 51-62. Ottawa, ON: Geological Survey of Canada, 1979.

328. 557 P89-1G

White, J.M. "Palynostratigraphy of the Esso Et Al. Issungnak 0-61 Well Beaufort Sea." In *Current Research, Geological Survey of Canada, Part G, Paper 89-1G*, 249-256. Ottawa, ON: Geological Survey of Canada, 1989.

This paper analyzes the stratigraphy of fossil pollen and spores found in cuttings from the Esso et al. Issungnak 0-61 well.

329. 559.8 Inte 1981

Willumsen, P.S. and R.P. Cote. "Tertiary Sedimentation in the Southern Beaufort Sea, Canada." In *Arctic Geology and Geophysics: Proceedings of the Third International Symposium on Arctic Geology*, 43-53. Calgary, Alberta: Canadian Society of Petroleum Geologists, 1982.

This article describes sedimentation that occurred during the Tertiary Era in the Canadian Beaufort Sea.

330. 557.19 Symp 1973

Young, F.G. "Mesozoic Epicontinental, Flyschoid and Molassoid Depositional Phases of Yukon's North Slope." In *Symposium on the Geology of the Canadian Arctic, Saskatoon, Sask., 1973, Proceedings ...*, 181-202. Calgary, Alta: Canadian Society of Petroleum Geologists, 1973.

This article describes the deposit of sediments on the Yukon's North Slope during the Mesozoic Era and compares these to processes occurring elsewhere.

Plants:

331. 581.971 9 Burt

Burt, P. *Barrenland Beauties: Showy Plants of the Arctic Coast*. Yellowknife, NWT: Outcrop Ltd., 1991.

This book provides an easy to use guide to the wildflowers and other plants of the Arctic, including the Beaufort Sea region. Information is included about each species in both English and Inuktituk. Also includes a guide to "botanizing" in the Arctic, a glossary of plant terms, and a brief identification key.

332. PAM 1974-18

Hettinger, L.R., R. Wein, and A.J. Janz.  
"Vascular Plant Range Extensions in the Northern Yukon Territory and Northwestern Mackenzie District, Canada" *Canadian Field-Naturalist* 88, no. 1 (Jan/Feb. 1974): 57-67.

This article contains the results of plant studies undertaken in the North Yukon and neighbouring Northwest Territories in the summers of 1971 and 1972. It lists 70 vascular plants that were found outside the ranges predicted by earlier botanists.

333. PAM 1974-294

Murray, D.F. *Field Report: Botanical Studies in the Arctic National Wildlife Range*. Fairbanks, Alaska: Bureau of Sport Fisheries and Wildlife, 1974.

**Porcupine Caribou Herd:**

334. PAM 1975-54

Calef, G., and G. Lortie. "A Mineral Lick of the Barren-Ground Caribou" *Journal of Mammalogy* 56, no. 1 (February 1975): 240-242.

This brief article describes a mineral lick on the Yukon North Slope used by the Porcupine Caribou Herd. The results of a chemical analysis of the lick are reported and the conclusion reaching in the article.

335. PAM 1991-309

Canada. Parliament. House of Commons. Standing Committee on Environment. *Minutes of Proceedings and Evidence ... Respecting: Pursuant to Standing Order 108 (2). "Study of the Division of Powers on Environmental Issues" Including: The First Report to the House on Porcupine-Caribous, N. 12, Oct 21, 1991.* Ottawa, ON: Queen's Printer, 1991.

336. PAM 1991-302

Fancy, S.G., and K.R. Whitten. "Selection of Calving Sites By Porcupine Herd Caribou" *Canadian Journal of Zoology* 69, no. 7 (1991): 1736-1743.

This paper summarizes the results of studies of sites used by the Porcupine Caribou Herd undertaken between 1983 and 1990 on the North Slope of the Yukon and Alaska. Information is included on calving site distribution, calf mortality, and characteristics of calving sites.

337. 599.735 7 Comp

Hovey, F.W., D.E. Russell, and F.L. Bunnell. *Computer Simulation Models of the Porcupine Caribou Herd.* 3 vols. CWS Technical Report Series, no. 53-55. Delta, B.C.: Canadian Wildlife Service, Pacific and Yukon Region, 1989.

338. 333.950 971 Thr

Leblond, N.R. and W.E. Rees. "An International Conservation Challenge: The Porcupine Caribou." In *Threatened and Endangered Species and Habitats in British Columbia and the Yukon*, 228-240. Victoria, B.C.: B.C. Ministry of Environment, 1980.

339. 599.7357 Nor 1983

Miller, F.L. "Some Physical Characteristics of Caribou Spring Migration Crossing Sites on the Dempster Highway, Yukon Territory." In *Caribou and Human Activity*, 15-21. Whitehorse, Yukon: Canadian Wildlife Service, 1983.

This paper discusses the crossing sites used by caribou on the Dempster Highway. The physical attributes of the crossings and possible barriers to the caribou were examined and factors that might cause caribou to avoid a particular crossing were also outlined.

340. PAM 1986-261

Mitchell, J.G. "Caribou" *Wilderness* 50, no. 174 (Fall 1986): 33-41.

Words and photographs are used to describe the life cycle of the caribou and their seasonal migration across the North Slope.

341. 599.735 7 PCMB

Porcupine Caribou Management Board. *Annual Report*. 1986/87-1991/92 (6 vols). Whitehorse, Yukon: Porcupine Caribou Management Board, 1987-.

These reports contain information on the Porcupine Caribou Herd, the communities that depend upon the herd, and the traditional culture and subsistence economy of Gwich'in, Inuvialuit, and Inupiat people. Descriptions of the yearly activities, finances and profiles of board members are included.

342. 599.7357 NOR 1983

Russell, D.E. and A.M. Martell. "Influence of the Dempster Highway on the Activity of the Porcupine Caribou Herd." In *Caribou and Human Activity*, 22-26. Whitehorse, Yukon: Canadian Wildlife Service, 1985.

This article discusses the potential harmful effects of the Dempster Highway on the Porcupine Caribou Herd. Data collection was centred on daily activity patterns, cratering (feeding in snow), and short term disruption by vehicles. The data indicated that no significant disruption could be attributed to the Dempster Highway.

343. 599.735 7 Russ

Russell, D.E., A.M. Martell, and W.A.C. Nixon. *Range Ecology of the Porcupine Caribou Herd in Canada*. Rangifer (Special Issue), No. 8, 1993.

344. 599.735 7 Russel

Russell, D.E., W.A.C. Nixon, and A.M. Martell. *Vegetation Communities Within the Range of the Porcupine Caribou Herd in Canada*. CWS Technical Report Series, no. 139. Delta, B.C.: Canadian Wildlife Service, Pacific and Yukon Region, 1992.

345. PAM 1988-135

Yukon Territory. Executive Council Office. *The Caribou Are Our Life*. Whitehorse, Yukon: Government of the Yukon, 1988.

The booklet supports a non-development position with comprehensive information on the fragile ecosystem of the North Slope and the life cycle of the caribou. Interviews with Vuntat Gwich'in people describe their subsistence lifestyle.



## GOVERNMENT AND POLITICS

"Amauligak is believed to be Canada's best offshore discovery. The structure is estimated to contain 700 to 800 million barrels of recoverable oil. This is one and a half times bigger than the East Coast's Hibernia which is estimated to contain 522 million barrels. Gulf's Amauligak I-65 stepout well was evaluated on New Year's Eve, 1985. Measured rates of oil flow were the highest of any well in the Corporation's history. Unimpeded flow rates of 35,000 barrels per day from a single zone were calculated. Unfortunately soon after, the world oil price started a catastrophic slide reaching a low of \$10 U.S. per barrel by mid-1986. Although prices have risen gradually to \$15 U.S., operations in the Beaufort have been curtailed and will remain so until prices rise and stabilize around U.S. \$20.60 (CDN \$28)"

Government:

346. 551.468 7 Bea vol. 12

Beaufort Sea Environmental Assessment Panel.  
*Beaufort Sea Environmental Assessment Panel  
Submissions, No. 12, Government Management, 1983.*

This report contains the 16 submissions that the Beaufort Environmental Assessment Review Panel received on the topic of government management. Topics addressed include management capabilities, research priorities, case studies, and proponent submissions.

347. 551.468 7 Bea vol. 16

Beaufort Sea Environmental Assessment Panel.  
*Beaufort Sea Environmental Assessment Panel  
Submissions, No. 16, Process Issues, 1983.*

This report contains the six submissions that the Beaufort Sea Environmental Assessment Review Panel (EARP) received on process issues. Topics addressed related to the way the EARP was structured--panel structure, activities and directions.

348. 551.468 7 Env

Beaufort Sea Environmental Assessment Panel.  
*Beaufort Sea Hydrocarbon Production and  
Transportation Proposal: Report. Ottawa, ON:  
Minister of Supply and Services Canada, 1984.*

This report contains a summary of the findings of the Beaufort Sea Environment Assessment Panel on a wide range of topics from pipelines to the socio-economic impacts of oil and gas development. The report recommends that oil and gas development be allowed in the Canadian Beaufort region as long as northerners are involved in the management process and as long as renewable resources are not threatened.

349. 333.823 15 GNWT

Beaufort Sea Environmental Assessment Panel.  
*Government of the Northwest Territories  
Submissions to the Beaufort Sea Environmental  
Assessment Panel.* 19 pts. Yellowknife, NWT:  
Gov't of the Northwest Territories, 1983.

350. PAM 1993-198

Canada. *The Canada Yukon Oil and Gas Accord.*  
Ottawa, ON: Queen's Printer, 1993.

The Accord outlines the formal agreement between  
the Governments of Canada of the Yukon concerning  
oil and gas revenue sharing and resource  
management.

351. Ref 354.17 Can

Canada. *Estimates. Part III, Indian and Northern  
Affairs Canada and Canadian Polar Commission.*  
1992/93-. Ottawa, ON: Supply and Services,  
1992?-

352. 354.710 087 8 Cana

Canada. *Estimates. Part III, Northern Pipeline  
Agency.* 1990/91-. Ottawa, ON: Supply and  
Services, 1990?-

353. 354.17 Ca

Canada. Dept. Of Indian Affairs and Northern  
Development. *Annual Report.* 1966/67-1968/69.  
Ottawa, ON: Indian Affairs and Northern  
Development, 1966-1969.

354. 354.17 Ca

Canada. Dept of Northern Affairs and National  
Resources. *Annual Report.* 1953/54-1954/55,  
1959/60-1961/62, 1963/64-1965/66. Ottawa, ON:  
Northern Affairs and National Resources,  
1954-1966.

355. PAM 1987-237

Canada. Environmental and Conservation Division. NWT Region. *Environmental Assessment and Review Process: Responsibilities of the Environment and Conservation Division of INAC*. Yellowknife, NWT: Environment and Conservation Division, 1987.

This pamphlet describes the environmental assessment and review process [EARP] in the Northwest Territories. The responsibilities of the territorial and federal governments are outlined and the screening process is described.

356. 354.17 Ca

Canada. Indian and Northern Affairs Canada. *Annual Report*. 1982/83- 1991/92. Ottawa, ON: Minister of Indian and Northern Affairs, 1982-1992.

357. 354.17 Ca

Canada. Indian and Northern Affairs Canada. *Annual Review*. 1981/82. Ottawa, ON: Indian and Northern Affairs Canada, 1982.

358. 333.79 Canad

Canada. National Energy Board. *Annual Report*. 1979-1980, 1984-1992. Ottawa, ON: Minister of Supply and Services Canada, 1979

359. PAM 1991-300

Canada. National Energy Board. *Canadian Energy: Supply and Demand 1990-2010: Summary Report*. Ottawa, ON: Minister of Supply and Services, 1991.

This report forecasts future Canadian energy needs and provides information on current energy usage. The report contains information on electricity, natural gas, oil, natural gas liquids and coal. Information is also included, for the first time, on gases linked to global warming, acid rain, and low-level ozone.

360. 333.791 109 71 Cana 1991

Canada. National Energy Board. *Canadian Energy Supply and Demand 1990-2010.* Calgary, Alta.: National Energy Board, 1991.

This report contains information on present energy use and production in Canada and projections of future demands. Information is included on general energy use for each province and territory, and on electrical use specifically. Specific energy sources are discussed including natural gas, oil, natural gas liquids, and coal. This section includes information on all aspects of production, reserves, pipelines, potential markets, and cost. The final section of the report discusses the environmental impact of energy use, particularly the emission of "greenhouse" gases.

361. 354.710 082 388 05 NOGAP

Canada. NOGAP Secretariat. *NOGAP Bulletin 1990/91-1991/92: Review of NOGAP Projects.* Ottawa, ON: Indian Affairs and Northern Development, 1991.

This report describes recent studies undertaken with funding from NOGAP. A short summary on each study lists the project manager and study objectives. Most of the studies listed in this report deal with the Beaufort Sea and Mackenzie Delta regions.

362. 354.710 082 388 52 Canad

Canada. Northern Oil and Gas Directorate. *Annual Report.* 1991-. Ottawa, ON: Dept. Of Indian Affairs and Northern Development, 1991- .

363. 351.082 NPA

Canada. Northern Pipeline Agency. *Annual Report.* 1978/79-. Ottawa, ON: The Agency, 1979-.

364. 349.71 Can-HC

Canada. Parliament. House of Commons. *Minutes of Proceedings and Evidence of the Legislative Committee on Bill C- ...* Ottawa, ON: Queen's Printer, 1985.

These proceedings include debate, and the presentation of testimony and briefs, related to Bills C-92 and C-94. Debate covers a variety of issues related to energy in Canada and specific issues related to petroleum development in the North. The role of aboriginal people and land claims in oil and gas development is debated, as well as the impact of petroleum development on the Northern environment.

Indexes catalogued at: Ref 349.71 Can-HC

365. 354.710 081 Cana-HC

Canada. Parliament. House of Commons. Standing Committee on Aboriginal Affairs. *Minutes of Proceedings and Evidence of the Standing Committee ...* Ottawa, ON: Queen's Printer, 1989- .

Archives holds the following issues: 34th Parliament, 3rd session, issue no. 2 (Oct 10/28 and Nov 4, 1991) -

Indexes catalogued at: Ref 354.710 081 Cana-HC

366. 354.710 081 Cana-HC

Canada. Parliament. House of Commons. Standing Committee on Aboriginal Affairs and Northern Development. *Minutes of Proceedings and Evidence of the Standing Committee on Aboriginal Affairs and Northern Development.* Ottawa, ON: Queen's Printer, 1986-1988.

Archives holds the following issues: 33rd Parliament, 1st session, issue no. 1-33rd Parliament, 2nd session, issue no. 45 (June 22/23, 1986).

Indexes catalogued at: Ref 354.710 081 Cana-HC

367. 354.710 081 Cana-HC

Canada. Parliament. House of Commons. Standing Committee on Indian Affairs and Northern Development. *Minutes of Proceedings and Evidence of the Standing Committee ...* Ottawa, ON: Queen's Printer, 1974-1986.

Archives hold the following issues: 30th Parliament, 1st session, issue no. 1 (Oct 9/15, 1974)-33rd Parliament, 1st session, issue no. 55 (Feb 12, 1986).

Indexes catalogued at: Ref 354.710 081 Cana-HC

368. 388.55 Cana-HC

Canada. Parliament. House of Commons. Standing Committee on Northern Pipelines. *Minutes of Proceedings and Evidence of the Standing Committee on Northern Pipelines.* Ottawa, ON: Queen's Printer, 1977- 1984.

Archives has the following issues:  
no. 1 (Oct 31, 1987) - 14 (March 20, 1979);  
no. 1 (Oct 23, 1979) - 8 (Dec 13, 1979);  
no. 1 (May 7, 1980) - 13 (May 12, 1981);  
no. 1 (March 7 & 27, 1984).

Indexes catalogued at: Ref 388.5 Can

369. PAM 1982-277

Canada. Parliament. Senate. "Energy Debate on the Motion to Establish Standing Senate Committee." In *Debates of the Senate, Official Report (Hansard), Vol. 128, No. 254 (Dec. 1, 1982)*

Transcript of the Senate debate on the establishment, procedures and success of a Senate Standing Committee on Northern Pipelines.

370. 388.56 Cana-Sen 1977/78

Canada. Parliament. Senate. Special Committee on a Northern Gas Pipeline. *Proceedings of the Special Committee of the Senate on a Northern Gas Pipeline*. Ottawa, ON: Queen's Printer, 1977-1982.

Archives has the following issues: no. 1 (March 21, 1978) - no. 6 (April 6, 1978).

Indexes catalogued Ref 388.5 Can

371. 333.709 71 Can-Sen

Canada. Parliament. Senate. Standing Committee on Energy and Natural Resources. *Proceedings of the Standing Senate Committee on Energy and Natural Resources*. Ottawa, ON: Queen's Printer, 1984-1990.

These proceedings contain debate and evidence designed to provide a framework for the development of a frontier energy policy in Canada. Topics covered include revenue, petroleum industry and the relationship of land claims to oil and gas development.

Archives has the following issues: issue no. 6 (May 9, 1984) - issue no. 31, (June 17, 1986).

Indexes catalogued at: Ref 330.709 71 Can-Sen.

372. 338.272 820 971 Canad

Canada. Petroleum Incentives Administration. *Annual Report*. 1985-. Calgary, Alberta: The Administration, 1985-

373. PAM ND-667

Canada. Polar Continental Shelf Project. *Licences and Permits For Scientific Research in the Canadian Arctic*. Ottawa, ON: Energy Mines & Resources, 1991?

This booklet provides information on how to obtain licences and permits for conducting scientific research in the Canadian Arctic.



374. 320.971 9 Devol 1990

Dacks, G. "The Quest For Northern Oil and Gas Accords." In *Devolution and Constitutional Development in the Canadian North*, 225- 267. Ottawa, ON: Carleton University Press, 1990.

This article traces the history of Northern Accord agreements in both the Yukon and Northwest Territories and discusses their significance in relation to Northern sovereignty and government devolution. The first section of the article describes the pre-Northern Accord legislative regime regulating oil and gas development North of 60 and the role of federal government departments.

375. 351.823 21 ESRF

Environmental Studies Research Funds (Canada). *Annual Report. 1990-* . Calgary, Alta: The Funds, 1990 - .

376. 333.823 15 GNWT no. 8

Hart, P.J. "Beaufort Community Energy Futures." In *Government of the Northwest Territories Submissions to the Beaufort Sea Environmental Assessment Panel, 1983*.

This report discusses energy use in the Beaufort Sea communities and how development could create new energy usage. Current sources of energy and energy costs in the Beaufort region are described. The report also outlines goals for energy policy in the Northwest Territories and discusses the development of alternative energy sources.

377. 338.272 Hunt

Hunt, C. *Alternative Management Regimes For Oil and Gas Activities Onshore in the Yukon and in the Beaufort Sea*. Calgary, Alta: Canadian Institute of Resources Law, 1989.

This report was prepared by the Canadian Institute of Resources Law for the Yukon Territorial Government. The report describes different management regimes used to manage oil and gas development in other parts of Canada and around the world and makes recommendations on setting up comprehensive regimes for managing petroleum resources in the Yukon. The report also makes recommendations on future research, including incorporating land claims agreements into future management regimes.

378. 343.710 772 Hunt

Hunt, C. *The Offshore Petroleum Regimes of Canada and Australia*. Calgary, Alta: Canadian Institute of Resources Law, 1989.

This book analyzes the legal aspects of the offshore petroleum industry in Canada and Australia. The first section of the book describes the Canadian offshore petroleum industry from a legal perspective. Although some material on the Beaufort is included, most of this section deals with Nova Scotia and Newfoundland. Next, the book describes the legal aspects of the Australian offshore petroleum industry. Finally, the author compares the legal systems of the two countries, discussing differences and similarities in their regulation of the offshore petroleum industry.

379. 508.311 3 Arct

Interagency Arctic Research Policy Committee. *Arctic Research of the United States*. Vol. 1, Fall 1987 -. Washington, DC: The Committee, 1987 -.

380. Periodical

Keith, R.F. "Arctic Borderlands: Environment and Development Issues in Canadian-American Relations" *Northern Notes*, no. 2 (November 1991): 27-51.

This paper reviews the third Pearson-Dickey conference, held in Whitehorse. Topics discussed at this conference included the Canadian-U.S. boundary dispute in the Beaufort Sea, bilateral relations and how they affect the North, and cooperation between the Yukon and Alaska over management of the Porcupine Caribou Herd.

381. Microfiche Lawrie

Lawrie, R.M. *Environmental Decision-Making Processes North of 60: The Beaufort Sea EARP and Lancaster Sound Study*. Canadian Theses. Ottawa, ON: National Library of Canada, 1983.

382. 351.823 27 MacDon

MacDonald, E.M. *Summaries Government Position Papers*. Ottawa, ON: Beaufort Sea Environmental Assessment Review, 1982.

Summarizes of government position papers submitted to the Beaufort Sea Environmental Assessment Review Panel by the Royal Canadian Mounted Police, National Museums of Canada, Environment Canada, Government of Yukon, and thirteen other agencies and departments.

383. 333.910 097 1 MRBC

Mackenzie Basin Intergovernmental Liaison Committee. *Annual Report*. 1974, 1976/77 (2 vols.) Regina, Sask: The Committee, 1974-1977.

384. 333.910 097 1 MRBC

Mackenzie River Basin Committee. *Annual Report*. 1977/78-1980/82, 1985/86 (5 vols). Regina, Sask: The Committee, 1978-

385. PAM 1987-274

Nelson, J., and P.G.R. Smith. "Institutional Arrangements For a System of Environmentally Significant Areas: The Case of the East Beaufort Sea Area, Canada" *Environmental Conservation* 14, no. 3 (1987): 207-218.

This paper describes a method of matching environmentally significant areas (ESAs) with the most appropriate form of management for each. The intent of management under this system is to protect both ecological and cultural values and to provide for sustainable use of resources in and around ESAs. Seven possible ESA's are described for the Beaufort Sea area. Management possibilities are discussed, including joint management between governmental agencies and aboriginal organizations, such as the Inuvialuit Resource Corporation.

386. PAM 1983-222

Northern Affairs Program (Canada). Northern Resources and Economic Planning Branch. *Beaufort Sea Hydrocarbon Exploration: A Federal Perspective*. Ottawa, ON: Minister of Supply and Services, 1983.

This report outlines the federal government's position on oil and gas development in the Canadian Beaufort Sea. The report briefly describes the land and people of the Beaufort Sea region, outlines legislation that controls development activities, and describes oil and gas activities in the Canadian Beaufort between 1970 and 1982. Next, the report outlines environmental and socio-economic objectives and issues related to oil and gas activities in the Beaufort. Finally, the report lists recommended guidelines for oil and gas operations in the Canadian Beaufort.

387. 333.793 2 NCPC

Northern Canada Power Commission. *Annual Report*. 1957/58-1965/66 (6 vols). Edmonton, Alta: The Commission, 1958-1966.

388. 333.793 2 NCPC

Northern Canada Power Commission. *Annual Report*.  
1985 -. Edmonton, Alta: The Commission, 1985-

389. 333.793 2 NCPC

Northern Canada Power Commission. *Annual Review*.  
1969-1984 (13 vols). Edmonton, Alta: The  
Commission, 1969-1984.

390. 333.793 2 NCPC

Northern Canada Power Commission. *Review of  
Operations*. 1966/67- 1967/68 (2 vols).  
Edmonton, Alta: The Commission, 1967-1968.

391. 351.823 88 NWT 1990

Northwest Territories. *Government of the  
Northwest Territories Proposal For the  
Finalization and Implementation of the Northern  
Accord*. Yellowknife, NWT: Government of the  
Northwest Territories, 1990.

This report includes the Government of the  
Northwest Territories proposal for a Northern  
Accord. The Northern Accord is intended to  
transfer legislative powers over the management  
of oil and gas resources located in the Northwest  
Territories to the territorial government. The  
report contains the text of the Northern Accord  
agreement and additional related agreements.

392. 333.823 15 GNWT no. 4

Northwest Territories. "NWT-Canada Resource Management and Revenue Sharing Agreement: A Proposal For Settlement, Draft #5." In *Government of the Northwest Territories Submissions to the Beaufort Sea Environmental Assessment Panel, 1983.*

This report provides a preliminary proposal for negotiating a revenue sharing agreement between the federal and territorial governments concerning hydrocarbon and mineral resources in the Northwest Territories. The report outlines specific points of negotiation on such things as aboriginal rights, northern employment, royalties, and socio-economic impacts.

393. 354.710 077 Cana 1975

Noulan, J.P. "Significant Canadian Environmental Problems Northern Roads and Pipeline Construction and Operation." In *Canadian Environmental Advisory Council Annual Review, 1975, 9-10.* Ottawa, ON: Minister of Supply and Services, 1975.

394. 341.448 091 Roth

Rothwell, D.R. *Maritime Boundaries and Resource Development: Options For the Beaufort Sea.* Calgary, Alta: Canadian Institute of Resources Law, 1988.

This book studies the boundary dispute in the Beaufort Sea between the United States and Canada. Provides an overview of similar boundary disputes and how they were settled and discusses the Gulf of Maine boundary dispute in detail. Next, the book discusses the Beaufort Sea boundary dispute including the issue of the 141 1st Meridian boundary line, the boundary treaty of 1825, arctic sovereignty and coastal geography.

395. 658.408 Sewel

Sewell, W.R.D., and H.D. Foster. *An Assessment of Canadian Environmental Policies on Offshore Development*. Ottawa, ON: Environment Canada, Corporate Planning Group, Policy Directorate, 1981.

This report evaluates Canadian environmental policies related to offshore oil and gas development. The report describes the institutional framework that already exists, identifies major problem areas, and defines responsibilities.

396. 627.3 Eva

Spencer Environmental Management Services Ltd. *Evaluation and Testing of the RGH Process*. Draft ed. Edmonton, Alberta: Spencer Environmental Management Services, 1984.

This reports evaluates a proposal by the consulting firm of Rogers, Goldern, and Halpern (RGH) for selecting an arctic site for hydrocarbon port facility.

397. PAM 1983-234

Stein, J.B. *Alaska North Slope Oil Exports: The Pros and Cons*. Washington, DC: Center For Strategic and International Studies, Georgetown University, 1983.

This paper outlines the positions of those who favour or oppose exporting oil from Alaska's North Slope. Each position is outlined, focusing on the economic and political reasons for either favouring or opposing exports.

398. Microfiche Virkutis

Virkutis, R.R. *Federal Government Control of Petroleum Operations in the Canadian Offshore: The Developing Legal Regime*. Canadian Theses, 22740. Ottawa, ON: National Library of Canada, 1986.

399. 333.823 15 GNWT no. 18

Weisbeck, D. "Analysis of Government Revenues From the Beaufort Sea Mackenzie Delta Hydrocarbon Development." In *Government of the Northwest Territories Submissions to the Beaufort Sea Environmental Assessment Panel*, 14, 1983.

This report provides a financial analysis of potential revenues that the Government of the Northwest Territories could receive from development of the Beaufort Sea and Mackenzie Delta. Property and corporate income taxes are discussed and estimates are provided of potential revenue under several scenarios.



# THE PEOPLE



## Archaeology:

400. Microfilm P 11, Reel 24

Arnold, C. "A Nineteenth-Century Mackenzie Inuit Site Near Inuvik, Northwest Territories" *Arctic* 39 , no. 1 (March 1986): 8-14.

This article describes a burial site that was eroded out of the Bombardier Channel of the Mackenzie Delta near Inuvik, Northwest Territories. Artifacts found in and around the site are also described and the site is dated to between 1865 to 1890 based on the type of artifacts found.

401. Periodical

Arnold, C. "Vanishing Villages of the Past: Rescue Archaeology in the Mackenzie Delta" *Northern Review* 1 , no. 1 (Summer 1988): 40-58.

This article provides a brief overview of the history and culture of the Mackenzie Delta Inuvialuit (Siglit) and of the archaeological work being undertaken in the Delta as part of the Mackenzie Delta Heritage Project. Illustrated with photographs, drawings, and a map.

402. 971.91 NOGAP

Cinq-Mars, J., and J.L. Pilon. *NOGAP Archaeology Project: An Integrated Archaeological Research and Management Approach*. Canadian Archaeological Association Occasional Papers, no. 1. Victoria, BC: Canadian Archaeological Association, 1991.

This volume contains papers on archaeological projects funded by the Northern Oil and Gas Action Plan (NOGAP). Most of these projects are located in the Mackenzie Delta and on the Yukon North Slope. Papers cover a wide range of topics including prehistoric bison hunting, Inuit bone and antler tools, and the prehistory of the Mackenzie Delta and Amundsen Gulf.

403. PAM 1992-340

Friesen, T.M. *Archaeological Approaches to Intersocietal Contact: Inuvialuit-Euroamerican Interaction on Herschel Island, Yukon Territory*. Unpublished Paper Presented At the 57th Annual Meeting of the Society For American Archaeology, 1992.

This paper discusses changes that occurred in the Inuvialuit way of life on Herschel Island after the coming of Euroamericans (whalers and traders). The paper focuses on changes in material culture and subsistence economy that is reflected in the archaeological record.

404. 970.4987 NSB

Libbey, D. , and E.S. Hall. *Cultural Resources in the Mid- Beaufort Sea Region: A Report For the North Slope Borough's Coastal Zone Management Plan*. Juneau, Alaska: Alaska Coastal Management Program, 1981.

This report contains a detailed inventory of archaeological and historic sites along the Alaska North Slope. Sites and artifacts are described in detail and information on who lived at specific sites is included from oral history interviews conducted with Inupiat elders. Information is also included on sites used by non-native explorers, traders, and whalers. The report documents how, in some cases, oil and gas development activities have encroached on traditional use areas such as house sites and grave sites.

405. 970.4199 McG

McGhee, R. *Beluga Hunters: An Archaeological Reconstruction of the History and Culture of the Mackenzie Delta Kittingyumiut*. Newfoundland Social and Economic Studies, no. 13. St. John's, Nfld: Memorial University of Newfoundland, 1974.

406. 971.91 Saxb

Saxbery, N. *The Archaeology and History of an Arctic Mission, Herschel Island, Yukon.* Occasional Papers on Archaeology , no. 4. Whitehorse, Yukon: Heritage Branch, 1993.

This paper provides a fascinating look at the material culture, archaeology, and history of the Anglican Mission at Herschel Island in the early twentieth century based on an excavation of an early refuse pit. The contents of the midden were deposited by Anglican missionary families and individuals between 1916 and the late 1920's. The paper concludes that the archaeology of the site reflects the dynamics of social interaction between non-native and Inuvialuit people in the Mackenzie Delta after the collapse of whaling in 1906. Maps, photographs, and drawings illustrate the study.

Heritage & Culture:

407. Microfiche Ach

Acheson, A.W. *Nomads in Town: The Kutchin of Old Crow, Yukon Territory*. Ann Arbor, MI: University Microfilms International, 1978.

408. PAM 1991-310

Canada. Parliament. House of Commons. Standing Committee on Environment. *Minutes of Proceedings and Evidence ... Respecting: Pursuant to Standing Order 108 (2) Consideration of the Proposed Development of the "1002" Section in the Arctic National Wildlife Refuge in Alaska, Issue No. 11, Oct 22, 1991*. Ottawa, ON: Queen's Printer, 1991.

Topics discussed include the life cycle of the Porcupine Caribou Herd, the potential impact oil and gas development, and the essential role caribou holds in the Gwich'in people's subsistence lifestyle.

409. 305.897 1 Chan

Chance, N.A. *The Inupiat and Arctic Alaska: An Ethnography of Development*. Orlando, FL: Holt, Rinehart and Winston, Inc., 1990.

This book provides a comprehensive and readable account of the Inupiat of the Alaska North Slope. The traditional lifestyle is described in detail, as well as the effects of recent oil and gas development and political changes.

410. 910.971 9 Rep vol. 11

Chipman, K.G., and J.R. Cox. *Geographical Notes on the Arctic Coast of Canada*. Report of the Canadian Arctic Expedition 1913-18, no. 11: Geology and Geography, pt. B. Ottawa: F.A. Acland, 1924.

This report describes the geography of the Arctic coast of Canada, including the Yukon North Slope. Descriptions are included of Herschel Island, the Firth River, and the Mackenzie Delta. Includes Inuvialuit place names.

411. 971.91 Coa

Coates, K. *The Northern Yukon: A History*. Parks Canada, National Parks and Sites Branch Manuscript Report, no. 403. Ottawa, ON: Parks Canada, 1979.

412. 970.4 Eld

Elder's Conference (1st: 1978: Barrow, Alaska). Puiguitkaat. Barrow, Alaska: North Slope Borough, Commission on History and Culture, 1981.

This report includes transcriptions and translations of the 1978 Elders Conference funded by the Alaska North Slope Borough Commission of History and Culture. The elders discussed many aspects of Inupiat traditional life, including hunting practices and taboos, legends, and day-to-day life.

413. Microfiche Fedir

Fedirchuk, G.J., and J.F.V. Millar. *Heritage Resource Overview Coastal Onshore Area Beaufort Sea-Mackenzie Valley Development Project, Vol. 1 [A.9]*. Microfiche. Edmonton, Alberta: Fedirchuk McCullough & Associates Ltd., 1981.

414. 971.2 Fr

Franklin, J. *Narrative of a Second Expedition to the Shores of the Polar Sea, in the Years 1825, 1826, and 1827 ...*. New York, NY: Greenwood Press, 1969.

This book contains an account of Sir John Franklin's second expedition to the Arctic. During this expedition, Franklin reached the Mackenzie Delta and explored the north coast of the Yukon. Franklin describes the Inuit people he meets and tells of naming geographic features along the shore of the Beaufort Sea.

415. 971.91 Fries

Friesen, T.M. *Qikiqtaruk: Archaeological Investigations on Herschel Island, Yukon Territory*. 1990-1992 (3 vols). Whitehorse, Yukon: Yukon Heritage Branch, 1991-1993.

416. 971.91 Greer

Greer, S. *Dempster Highway Corridor: Human History and Heritage Resources*. Whitehorse, Yukon: Heritage Branch, 1989.

This report describes the human history of the Dempster Highway area and heritage resources that are located along the highway corridor. Information is included on the history of the Han and Gwich'in people who have lived in the region for generations, based on oral history as well as written resources. Prehistoric sites, historic sites and graves, native place names, trails, and land use areas are also described.

417. PAM 1974-6

Harding, L. "Mackenzie Delta: Home of Abounding Life" *Canadian Geographical Journal* 88, no. 5 (May 1974): 4-13.

This article provides a general overview of the Mackenzie Delta region and raises concerns over possible oil and gas development. The ecosystem of the delta is described as well as the traditional lifestyle of the Gwich'in and Inuvialuit.

418. 971.91 Ingr

Ingram, R., and H. Dobrowolsky. *Waves Upon the Shore: An Historical Profile of Herschel Island*. Whitehorse, Yukon: Heritage Branch, 1989.

This report provides an overview of the history of Herschel Island. The focus is on the heyday of whaling in the Western Arctic during the late nineteenth and early twentieth centuries. Whaling in the region around Herschel Island and the life of overwintering crews is described in detail. Information is also included on the missionaries, traders, and police who lived on Herschel during these years. Brief profiles of a number of early residents are included, along with descriptions of the remaining historic buildings and a chronology of the island's history.

419. 917.19 Jenn

Jenness, D. *Arctic Odyssey: The Diary of Diamond Jenness, Ethnologist With the Canadian Arctic Expedition in Northern Alaska and Canada, 1913-1916*. Hull, Quebec: Canadian Museum of Civilization, 1991.

This impressive book contains the edited diaries kept by anthropologist Diamond Jenness during his years spent with the Canadian Arctic Expedition. A member of the expedition between 1913 and 1918, Jenness visited Inuit, Inupiat, and Inuvialuit communities along the Arctic coasts of Alaska, the Yukon, and the Northwest Territories. The diaries include detailed descriptions of the landscape, weather, wildlife encountered, and the culture of the Inuit, Inupiat, and Inuvialuit people that he met and lived with. Illustrated with maps, drawings, and photographs.



420. 910.971 9 Rep Vol. 13 pt. B

Jenness, D. *Eskimo String Figures*. Report of the Canadian Arctic Expedition, 1913-18, no. 13: Eskimo Folk-lore, pt. B. Ottawa: F.A. Acland, 1924.

This volume provides a fascinating look at string figures, a traditional Inupiat and Inuit artform. More than 100 different figures are illustrated in this volume, including a drawing of the figure, the Inuit or Inupiaq and English names for the figure, and a description of what the figure is depicting.

421. 910.971 9 Rep vol 13 pt. A

Jenness, D. *Myths and Traditions From Northern Alaska, the Mackenzie Delta, and Coronation Gulf*. Report of the Canadian Arctic Expedition, 1913-18, no. 13: Eskimo Folk-Lore, pt. A. Ottawa: F.A. Acland, 1924.

This volume contains traditional stories collected by Diamond Jenness in the Inupiat, Inuvialuit, and Inuit communities of the Arctic coast from Point Barrow, Alaska to the Coppermine District of the Northwest Territories. The stories are presented in Inuit (or Inupiaq) with a word-for-word translation in English and in free English translations.

422. 264.36 Lonn

Lonneux, M.J. *Mass Book and Hymnal in Innuit: Missarchutit Kalikat*. Chanéliak, Alaska: Vicar-Apostolic of Alaska, 1950.

This book contains the Mass and a selection of hymns translated by Inupiat people in Northern Alaska. The text is entirely in Inupiaq, with a table of contents in both Inupiaq and English.

423. 508.98 Lop

Lopez, B.H. *Arctic Dreams: Imagination and Desire in a Northern Landscape*. New York: Charles Scribner's Sons, 1986.

This book is a broad based account of the American and Canadian Arctic. It includes evocative descriptions of arctic landscapes, people, and wildlife. Lancaster Sound, the Central and Porcupine Caribou herds, ice, and Prudhoe Bay are some of the topics covered in the Beaufort region.

424. REF 487.1 MacL

MacLean, E.A. *Inupiallu Tannillu Uqalunisa Ilanich: Abridged Inupiaq and English Dictionary*. Fairbanks, Alaska: Alaska Native Language Center & Inupiat Language Commission, 1980.

This book provides a description and dictionary of Inupiaq, the language spoken by Alaskan North Slope Inupiat.

425. 921 NUL

Metayer, M. *I, Nuligak*. Toronto: Peter Martin Associates Limited, 1966.

This book is the autobiography of Nuligak, an Inuvialuit man who was born in the Mackenzie Delta in 1895 and lived all of his life in the delta and Yukon North Slope region. Nuligak vividly describes the traditional Inuvialuit way of life and the history of the Beaufort Sea region during the early 20th century. The book also included excellent descriptions of life on Herschel Island during the whaling boom.

426. 970.004 97 Pet vol. 1

Petitot, E. *The Amerindians of the Canadian Northwest in the 19th Century, As Seen By Emile Petitot, Vol. 1: The Tchiglit Eskimos.* Mackenzie Delta Research Project, MDRP 10. Ottawa: Information Canada, 1971.

This volume contains a translation of some of Emile Petitot's writings on the Inuvialuit of the Mackenzie Delta. Father Petitot, an Oblate priest and anthropologist, visited the Mackenzie Delta five times during 1869 and 1870. The translations are excerpts from Petitot's book on the Inuvialuit, *Les Grande-Esquimaux*, including material on all aspects of Inuvialuit culture.

427. PAM 1983-235

Ross, B.D. *Herschel Island: Heritage in the Face of Adversity.* Research Bulletin (Parks Canada), no. 192. Ottawa, ON: Parks Canada, 1983.

428. Ref 970.497 Ha

Smith, D.G. "Mackenzie Delta Eskimo." In *Handbook of North American Indians, Vol. 5, Arctic*, 347-358. Washington, DC: Smithsonian Institute, 1984.

This article provides a brief overview of the ethnology of the Inuvialuit of the Mackenzie Delta. The article gives a detailed description of the Mackenzie Delta and nearby Richardson Mountains, and then describes the subsistence economy, social system and religious beliefs of the Inuvialuit. Illustrated with maps, drawings and photographs.

429. 306.109 71 Smi

Smith, D.G. *Natives and Outsiders: Pluralism in the Mackenzie River Delta, Northwest Territories.* Mackenzie Delta Research Project, MDRP 12. Ottawa, ON: Department of Indian Affairs and Northern Development, 1975.

This book contains a comprehensive sociological profile of the people and communities of the Mackenzie Delta region. Information is included on all aspects of life for Inuvialuit, Dene, Metis, and non-native residents of the Delta.

430. Ref 970.497 Ha

Spencer, R.F. "North Alaska Coast Eskimo." In *Handbook of North American Indians, Vol. 5, Arctic*, 320-337. Washington, DC: Smithsonian Institute, 1984.

This article provides a brief yet comprehensive account of the history and culture of the Inupiat people of the Alaska North Slope. Includes a description of the physical setting of the North Slope, subsistence economy, Inupiat system and religion beliefs and discusses the impact that the whaling industry and oil and gas development. Illustrated with maps, drawings, and photographs.

431. Microfiche A1-Or

University of Alaska, Fairbanks. Program For the Preservation of Oral History and Traditions. *An Index of Alaska Oral History Collections.* Microfiche. Fairbanks, AK: University of Alaska, Fairbanks, 1984.

432. 971.91 Yukon

Yukon North Slope Conference (1989-1991). *Yukon North Slope Conference: Summary Report*. 1989-1991 (3 vols). Whitehorse, Yukon: IFA Implementation Secretariat, Dept. of Renewable Resources, 1989-1991.

These reports include the proceedings of the annual Yukon North Slope Conference held in Dawson and Whitehorse since 1989. Sessions include international cooperation in environmental management, North Slope conservation management, culture and traditions of the Gwich'in and Inuvialuit, Porcupine Caribou Herd.

Land Claims & Land Use Planning:

433. 333.7 CARC 1983

Anjum, S. "Land-Use Planning in the North Slope Borough." In *National and Regional Interests in the North: Third National Workshop on People, Resources, and the Environment North of 60, Yellowknife, NWT, 1-3 June 1983*, 269-289. Ottawa, ON: Canadian Arctic Resources Committee, 1984.

This paper provides a valuable overview of how land-use planning has developed on the Alaska North Slope. Information is given on the history of oil and gas development and land claims in the area. The role of the Borough, the federal and state governments, and individual communities in this process is described in detail.

434. 551.468 7 Rep vol. 4

Beaufort Sea Steering Committee. Task Group #3. *Report on Wildlife Compensation and Instruments of Financial Responsibility*. Ottawa, ON: Indian and Northern Affairs Canada, 1991.

This report contains recommendations on financial compensation for wildlife loss to the Inuvialuit and also develops a draft generic wildlife compensation agreement. However, the report also notes the disagreement over section 13 of the Inuvialuit Final Agreement and urges that this be resolved.

435. Ref 979.800 497 BER

Berger, T.R. *Village Journey: The Report of the Alaska Native Review Commission*. New York, NY: Hill and Wang, 1985.

This book contains the results of a commission chaired by Thomas Berger that travelled to 62 communities in Alaska to hold hearings on Native people's feelings about the Alaska Native Claims Settlement Act. At these hearings, native people voiced serious concerns about the impact that land claims had on their way of life and the threat that the corporation structure poses to their subsistence lifestyle. This book includes quite a bit of material from Barrow and other Inupiat villages on the Alaska North Slope.

436. 333.823 1 DIAND 1983

Canada. Dept. of Indian Affairs and Northern Development. *Beaufort Sea EARP Hearings 1983: Participants Statements and Comments on Key Topics and Issues*. Ottawa, ON: DIAND, Public Review Group, 1984.

This report includes a compendium of comments by participants at the Beaufort Sea Environmental Assessment Review Panel hearings. These comments are listed under subject headings such as animals, employment, land claims, and a variety of other headings. Comments are summarized and speakers are identified by community.

437. Ref 016.307 12 NOGAP

Canada. NOGAP Secretariat. Constitutional Development and Strategic Planning Branch. *NOGAP Cumulative Bibliography*. Ottawa, ON: Minister of Supply and Services Canada, 1992.

This bibliography contains citations for published and unpublished reports completed under the Northern Oil and Gas Action Program (NOGAP). Includes subject, author, geographic, title and serial indexes.

438. 333.7 CARC 1983

Heath, J. and D. Brooks. "Development in the Beaufort Sea Region." In *National and Regional Interests in the North: 3rd National Workshop on People, Resources and the Environment North of 60, Yellowknife, NWT 1-3 June 1983*, 635-713. Ottawa, ON: Canadian Arctic Resources Committee, 1984.

These papers include the proceedings from a session on development in the Beaufort Sea Region held at a conference on People, Resources, and the Environment North of 60. It provides an overview on oil and gas development, land use planning with submissions from the Council for Yukon Indians, Government of the Yukon

439. 346.710 432 Keep

Keeping, J.M. *The Inuvialuit Final Agreement*. Calgary, Alta: Canadian Institute of Resources Law, 1989.

This book studies the impact of the Inuvialuit Final Agreement on oil and gas activities north of the 60th parallel. The first part of the book describes the sections of the Agreement that are most relevant to the oil and gas industry. The next section discusses the legal aspects of the Agreement. The final section discusses other legislation that applies to oil and gas development in the North. The study concludes that the Inuvialuit Final Agreement made three types of important changes to the legal regime under which the oil and gas industry operates in the North. These changes are described.



440. 333.73 Dra

Mackenzie Delta-Beaufort Sea Regional Land Use Planning Commission. *A Draft Community-Based Regional Land Use Plan For the Mackenzie Delta-Beaufort Sea Region.* 2 vols. Inuvik, NWT: Northwest Territories Land Use Planning Regional Office, 1990.

The first volume of this report provides a overview of the Mackenzie Delta - Beaufort Sea region, highlighting community profiles, subsistence economy, oil and gas exploration and development, and land use planning issues. The second volume of this report describes areas identified for protection by the communities of Aklavik, Arctic Red River, Fort McPherson, Holman, Inuvik, Paulatuk, Sachs Harbour, and Tuktoyaktuk. Areas of biological, geological, and historical importance; migratory bird sanctuaries; and National Parks and natural areas of Canadian significance are described, including Northern Yukon National Park. Important fish and marine mammal habitats are also identified along with areas of key importance to specific wildlife species.

441. 333.7314 Nalb

Nalbach, J.T. *Resource and Land Uses Along the Proposed Dempster Lateral Pipeline Route.* Calgary, Alberta: Foothills Pipe Lines (Yukon) Ltd., 1979.

This report summarizes the findings of a survey of resources and land uses conducted along the route of the proposed Dempster Lateral Pipeline from June to December, 1978. The survey was conducted along an eight kilometer wide corridor that followed the 1180 kilometer long proposed pipeline route. Information was collected on trapping, fishing, hunting, forestry, mining, agriculture, recreation, and government facilities.

442. Ref 912 719 2 Nunav

Riewe, R. *Nunavut Atlas*. Edmonton, Alberta: Canadian Circumpolar Institute and Tungavik Federation of Nunavut, 1992.

This atlas portrays land use and wildlife habitat in Nunavut (Eastern Arctic). Consists of maps showing Inuit land-use and wildlife habitat, including archaeological sites, campsites, domestic and commercial fishing sites, outpost camps, major travel routes, and the Nunavut Settlement Boundaries. Keys in both English and Inuktitut syllabics.

443. PAM 1984-215

Staples, L. *Land Use Concerns in the Beaufort Sea Region: A Report Prepared For the Beaufort Sea Alliance*. Whitehorse, Yukon: Beaufort Sea Alliance, 1984.

**Socio-Economic Impacts:**

444. Microfiche Al-OCS

Alaska OCS Socioeconomic Studies Program.  
*Technical Report (Microfiche)*. Nos.  
1,4,6,8,9,10-13,15-23,28. Springfield, VA:  
NTIS, 1978-.

445. Microfiche AEIDC SR3

Arctic Environmental Information and Data Center  
(Alaska). *Socioeconomic Profile*. National  
Petroleum Reserve (Alaska) Task Force Study  
Report, no. 3. Anchorage, AK: The Center

446. PAM 1983-229

Beaufort Sea Alliance. *Final Argument of the  
Beaufort Sea Alliance to the Beaufort  
Environmental Assessment and Review Panel*.  
Whitehorse: Beaufort Sea Alliance, 1983.

The Alliance presents a strong case against large  
scale and gas development in the Beaufort area  
and critiques the Environmental Impact Statement.  
The submission also includes a discussion of  
socio-economic impacts and ends by listing ten  
recommendations on how oil and gas development  
could proceed in an acceptable manner in the  
Beaufort Sea region.

447. 551.468 7 Beau vol. 10

Beaufort Sea Environmental Assessment Panel.  
*Beaufort Sea Environmental Assessment Panel  
Submissions, No. 10, Community and Socio-Economic  
Effects--Mackenzie Valley, 1983.*

This volume contains a statement by Employment and Immigration Canada that was submitted to the Beaufort Sea Environmental Assessment Review Panel. The statement focuses on the issue of employment of Northerners in the northern oil and gas industry. The submission commends the oil and gas industry for its previous efforts to employ northerners, then outlines areas for improvement. The submission also outlines obstacles to hiring northerners--lack of training and education. Urges both government and industry to develop special training programs aimed at providing northerners with the skills necessary to access jobs in the oil and gas industry.

448. 551.468 7 Bea vol. 11

Beaufort Sea Environmental Assessment Panel.  
*Beaufort Sea Environmental Assessment Panel  
Submissions, No. 11, Community and Socio-Economic  
Effects--General, 1983.*

This volume includes submissions on the socio-economic impacts of oil development in the Beaufort presented to the Beaufort Sea Environmental Assessment Panel in 1983. Submissions are included from the Government of the Northwest Territories, private individuals, the Beaufort Sea Alliance, and oil companies. Most of the submissions present information on the potential impacts of oil and gas development on northern residents.

449. 551.468 7 Bea vol. 13

Beaufort Sea Environmental Assessment Panel.  
*Beaufort Sea Environmental Assessment Panel  
Submissions, No. 13, Compensation, 1983.*

This book contains four submissions to the Beaufort Sea Environmental Assessment Panel on the topic of compensation for damage or changes to the environment resulting from hydrocarbon development in the Beaufort Sea. The submissions are from the Dene Nation, Northwest Territories Dept. of Renewable Resources and the Dept. of Indian and Northern Affairs. Guidelines for compensation are discussed and the Northwest Territories Government policy relating to compensation is also described.

450. 551.468 7 Bea vol. 7

Beaufort Sea Environmental Assessment Panel.  
*Beaufort Sea Environmental Assessment Panel  
Submissions, No. 7, Community and Socio-Economic  
Effects--Beaufort Sea and Mackenzie Delta, 1983.*

This report contains submissions from a variety of groups on the socio-economic impacts associated with oil and gas development in the Beaufort Sea and Mackenzie Delta. The majority of these submissions support development that will benefit local residents and that will not damage traditional Inuit and Dene culture and subsistence lifestyles. Submissions also discuss the role land claims must play in decision-making related to development and critique the environmental assessment impact review process.

451. 551.468 7 Bea vol. 8

Beaufort Sea Environmental Assessment Panel.  
*Beaufort Sea Environmental Assessment Panel  
Submissions, No. 8, Community and Socio-Economic  
Effects--N.W. Passage, 1983.*

This volume contains a submission from the Baffin Region Inuit Association to the Beaufort Sea Environmental Assessment Review Panel (EARP). Concerns are raised about hydrocarbon development in the Beaufort and the possible effects tanker traffic and oil spills could have on the whale populations of Davis Strait and Lancaster Sound. The submission cautions that oil and gas development in the Beaufort, and the possibility of using the Northwest Passage for year-round shipping, could have a negative impact on the Inuit of the Baffin Region.

452. 551.468 7 Bea vol. 9

Beaufort Sea Environmental Assessment Panel.  
*Beaufort Sea Environmental Assessment Panel  
Submissions, No. 9, Community and Socio-Economic  
Effects--Yukon, 1983.*

This volume contains submissions to the Beaufort Sea Environmental Assessment Panel on possible socio-economic impacts of Beaufort Sea development in the Yukon. Submissions are included from the Northern Canada Power Commission, clergy of Yukon Catholic and Anglican churches, the Whitehorse Chamber of Commerce, the Old Crow Indian Band (Grafton Njootli), the Government of the Yukon, and others. Concerns are raised in several submissions about the possible impact development could have on the Porcupine Caribou Herd and on the community of Old Crow.

453. 388.56 068 Dene

Dene/Metis Negotiations Secretariat. *Documents  
Submitted As Written Evidence By Dene/Metis  
Negotiations Secretariat For NEB Hearing on  
Shell/Esso/Gulf Beaufort Sea Gas Export.*  
Calgary, AB: National Energy Board, 1989.

454. PAM 1983-233

Detlor, T. *Some Aspects of Beaufort Hydrocarbon Production and the Town of Inuvik.* Inuvik, NWT: T. Deltor, 1983.

This paper describes the potential impact oil and gas development in the Beaufort could have on the community of Inuvik. Concerns are raised regarding training and employment, of local residents, protection of the environment, and benefits to local businesses.

455. PAM 1982-280

Dome Petroleum. Frontier Division. *Northern Socio-Economic/ Environmental Action Plan.* Calgary, Alberta: Dome Petroleum Limited, 1982.

This booklet was designed to provide policy direction for Dome managers working in the North. Dome's policies are outlined in the areas of employment, environmental and cultural protection, native interests, social and environmental impacts.

456. 333.823 21 DPA 1983

DPA Consulting Limited. *Initial Draft Socioeconomic Impact Assessment For Proposed Stokes Point Marine Support Base.* Vancouver, BC: DPA Consulting Limited, 1983.

This report assesses the possible socio-economic impacts of building a marine support base on the Beaufort Sea coast. The proposed base is described and potential impacts on regional employment, the local subsistence economy and national parks are discussed.

457. 338.272 Egl

Eglinton, P., and M. Uffelman. *An Economic Analysis of Hydrocarbon Developments in the Beaufort Sea*. Ottawa, ON: Economic Council of Canada, 1984.

This discussion paper was prepared for the Economic Council of Canada in order to discuss the economic feasibility of oil and gas development in the Beaufort Sea. The paper deals with three topics: the minimum of oil reserve size that would allow feasible economic development, the potential for relatively low cost oil from the Beaufort and the appropriateness of future development.

458. PAM ND-60

Esso Resources Canada Ltd. *Norman Wells Expansion Project*. Yellowknife, NWT: Esso Resources, 1983.

This report was submitted to the Beaufort Environmental Assessment Review Panel in response to questions concerning Esso's employment of northerners on the Norman Wells Project. Information is provided on Esso's Northern Employment Office, on the location and distribution of northern employees by community, on native employment, and on the average length of employment.

459. 330.971 Gulf

Gulf Canada Resources Ltd. *Canadian Benefits Associated With Application For Exploration Agreement on Gulf-Operated Beaufort Sea Lands*. Calgary, Alta: Gulf Canada Resources Inc., 1982.

This report outlines Gulf Canada's programs designed to increase benefits to northerners and Canadians from oil and gas development in the Beaufort Sea. The first part of the report describes Gulf Canada Limited and their Beaufort Sea exploration program. The next section describes potential benefits from Beaufort Sea oil and gas development to Canada as a whole. The final section discusses employment and training and Northern benefits, including socio-economic impacts.



460. PAM 1988-175

Hnatiuk, J. and B. Wright. "Current and Future Petroleum Activities in Canada." In *International Conference on Technology For Polar Areas, (Polar Tech '88), Trondheim, Norway, June 1988, 55-69.*

This paper provides an overview on offshore petroleum development in the Beaufort Sea, Grand Banks, and Arctic Islands. Information is included on environmental conditions, exploration history, transportation systems, fiscal, political, and socio-economic factors.

461. Periodical

Knapp, G., and T.A. Morehouse. "Alaska's North Slope Borough Revisited" *Polar Record* 27 , no. 163 (October 1991): 303-312.

This article reviews the economic and social impacts that oil and gas development has had on the Inupiat of the Alaska North Slope. The article focuses on the social and political developments that occurred since 1979 to 1989.

462. 971.903 Canada

Maiklem, W.R., and J.D.B. Palmiere. *Canada's North: Land of the Midnight Sun.* 4 vols. Calgary, Alberta: Petro-Canada, 1986.

In 1986 Petro Canada conducted an "Arctic Tour" and information was compiled on the Western and Eastern Arctic for the tour participants. The detail provided was on a wide range of subjects--Inuit art, oil and gas activities, European exploration, physical environment, wildlife and vegetation, the economy and northern communities. Illustrated with colour photographs and maps.

463. Periodical

Morehouse, T., and L. Leask. "Alaska's North Slope Borough: Oil, Money and Eskimo Self-Government" *Polar Record* 20, no. 124 (January 1980): 19-29.

This paper discusses the impact that oil and gas development at Prudhoe Bay has had on Inupiat communities of the Alaska North Slope. The authors describe how these communities were able to gain economic benefits through the corporation structure established under the Alaska land claims settlement and outlines the financial revenues earned by North Slope communities between 1973 and 1980.

464. PAM 1981-201

Njootli, G. *A Submission to the Beaufort Sea Environmental Assessment Review Panel on Behalf of the Community of Old Crow At Inuvik on November 20, 1981.* Inuvik, NWT: G. Njootli, 1981.

This paper outlines the concerns residents of Old Crow have about continued development in the Beaufort Sea. The emphasis is on the need to consult Old Crow residents about development issues that have an impact on the community.

465. PAM 1984-213

Northwest Territories. *Final Argument of the Government of the Northwest Territories.* Yellowknife, NWT: Gov't of the Northwest Territories, 1984.

This report presents the final argument of the Government of the Northwest Territories to the Beaufort Sea Environmental Assessment and Review Panel. Recommendations are included on socio-economic impacts, government management and environmental impacts.

466. 333.823 12 Rob

Roberts, R. *Growth Management Strategies: Recommendations to Assist in the Management of Boom/Bust in the Beaufort*. Yellowknife: Government of the Northwest Territories, 1985.

This report proposes a strategy for dealing with changes in population linked to "boom and bust" cycles for oil and gas development activities in the Beaufort Sea region. This strategy was developed for use by the Government of the Northwest Territories to help lessen socio-economic impacts associated with oil and gas development projects in the North. Housing, employment, the subsistence economy, and health concerns are some of the areas addressed in this report.

467. 331.125 Usher 1982

Usher, P.J. *Assessing the Impact of Industry in the Beaufort Sea Region*. Ottawa, ON: P.J. Usher Consulting Services, 1982.

This paper provides a critique of the standard approach to assessing socio-economic impacts and proposes an alternative. The first section of the paper describes the economy and social structure of the Beaufort Sea Region. The second section discusses the relationship between the wage economy and subsistence economy and the final section discusses the implications of these findings for the Social Impact Assessment process.

468. 338.52 PIPFP 1988

Yukon Territory. *Public Inquiry Into Petroleum Fuel Pricing in the Yukon Territory*. [Report]. Whitehorse, Yukon: The Inquiry, 1988.

469. 338.52 PIPFP-TR vol. 18

Yukon Territory. *Public Inquiry Into Petroleum Fuel Pricing in the Yukon Territory. Transcript of June 29, 1988, Old Crow, YT*. Whitehorse, Yukon: J.G. Moore and Associates Ltd., 1988.

470. Microfiche Zas

Zaslow, M. *The Development of the Mackenzie Basin, 1920-1940.* Canadian Thesis on Microfiche, no. 19736. Ottawa, ON: National Library of Canada, 1974.

471. Microfiche Zas1

Zaslow, M. *A History of Transportation and Development of the MacKenzie Basin From 1871-1921.* Canadian Theses on Microfiche, no. 17820. Ottawa, ON: National Library of Canada, 1974.

## Subsistence economy:

### 472. Microfiche Use

Arctic Environmental Information and Data Center (Alaska). *Memorandum: Use and Occupancy of the Arctic Slope By Arctic Slope Eskimos.* Microfiche. Anchorage, Alaska: The Center, 1980.

### 473. 979.879 87 Craig

Craig, P. *Subsistence Fisheries At Coastal Villages in the Alaskan Arctic, 1970-1986.* Social and Economic Studies: Technical Report, No. 129 Study, Anchorage, Alaska: Minerals Management Service, Alaska OCS Region, 1987.

This report describes the subsistence fisheries of the Alaskan coastal communities of Barrow, Point Lay, Wainwright, Atkasuk, Nuiqsut, and Kaktovik for 1970-1986. Describes the fish species harvested by Inupiat, maps and describes the distribution and traditional harvesting areas.

### 474. Periodical

Ellanna, L. "Wetlands and Subsistence-Based Economies in Alaska, U. S.A." *Arctic and Alpine Research* 21, no. 4 (November 1989): 329 - 340.

This paper examines the significant role that wetland areas hold in the Alaskan subsistence economy. Case studies of four Inupiat villages are presented, describing the use that village residents make of surrounding wetland habitats.

475. 333.823 14 Fox

Fox, M.G. *A Preliminary Assessment of the Impact of a Dempster Lateral Gas Pipeline on Local Resource Harvesting Activities.* Edmonton, Alta: Foothills Pipe Lines (Yukon) Ltd, 1978.

This volume summarizes the results of a preliminary study on possible impacts of the proposed Dempster Lateral Pipeline on the subsistence economy of communities located along or near the pipeline route. The study provides baseline data on resource harvesting sites located within eight kilometres of the proposed pipeline. Potential impacts and recommendations are described for the Porcupine Caribou Herd, salmon and furbearers.

476. 971.004 971 Free

Freeman, M.M.R., E.E. Wein, and D.E. Keith. *Recovering Rights: Bowhead Whales and Inuvialuit Subsistence in the Western Canadian Arctic.* Edmonton, Alberta: Canadian Circumpolar Institute, 1992.

This book provides a moving account of the Inuvialuit people's efforts to have their rights to subsistence whaling restored and of the bowhead whale hunt held off Shingle Point on the Yukon North Slope in 1991. The book contains a wealth of information on the Inuvialuit of Aklavik who continue to use traditional areas on the Yukon North Slope. The book documents their use of the Yukon North Slope and their subsistence economy and provides a brief outline of the history of the North Slope Inuvialuit. This book is a valuable resource on a little known aspect of the Yukon's history and heritage.

477. PAM 1987-13

Fuller, S., and T. McTiernan. "Old Crow and the Northern Yukon: Achieving Sustainable Resource Utilization" *Alternatives*, Vol. 14, No. 1 (Special Issue, Feb 1987): 18-25.

This paper discusses the subsistence economy of the Vuntut Gwich'in people of Old Crow. It also describes how the Gwich'in are active in the decision-making process concerning renewable and non-renewable resource use. Included in this article is an essay by Norma Kassi outlining the traditional Gwich'in use of renewable resources and the problems with proposed oil and gas development on the North Slope.

478. 333.823 15 GNWT no. 5

Graf, Ron. "The Changes in Harvest Patterns Resulting From Increased Industrial Development." In *Government of the Northwest Territories Submissions to the Beaufort Sea Environmental Assessment Panel, 1983*

This report discusses the possible impacts that oil and gas development in the Beaufort Sea region might have on hunting patterns. Current harvesting in the Beaufort region and specific impacts that could result from increased development are described. Several hypotheses are proposed on the effect these impacts would have on hunting, and recommendations are made on ways to lessen these impacts.

479. 979.8 Nor 1990

Impact Assessment, Inc. *Northern Institutional Profile Analysis: Beaufort Sea: Final Technical Report*. Alaska OCS Social and Economic Studies Program Technical Report, no. 142. Anchorage, Calif.: Alaska OCS Region, 1990.

This report provides an in depth overview of the history, culture, and subsistence economics of Alaska's North Slope communities. The first section of the report describes the physical settings of the North Slope and the communities of Anaktuvuk Pass, Atkasuk, Barrow, Kaktovik, Nuiqout, Point Hope, Point Lay and Wainwright. The next section provides an overview of the region's history including the whaling era, the fur trade, World War II, and the Alaska Native Claims settlement. Information is included on population, the economy, formal institutions, cultural issues, and the subsistence economy.

480. 306.3 Jac

Jacobson, M., and C. Wentworth. *Kaktovik Subsistence: Land Use Values Through Time in the Arctic National Wildlife Refuge Area*. Fairbanks, Alaska: U.S. Fish and Wildlife Service, 1982.

This study documents the subsistence economy of the people of Kaktovik, Alaska, a small Inupiat village in the Arctic National Wildlife Refuge. The species used for food are catalogued and their relative importance described. The history of some of the hunting sites is documented and the genealogy of many of the residents is shown in the appendices.



481. PAM 1982-279

Kruse, J.A. *Subsistence and the North Slope Inupiat: The Effects of Energy Development.* Man in the Arctic Program: Monograph, no. 4. Anchorage, Alaska: Institute of Social and Economic Research, University of Alaska, 1982.

This paper studies the subsistence economy of Alaska's North Slope Inupiat people. All aspects of the subsistence economy are discussed including the economic importance of subsistence, the cultural value of subsistence activities and the effect that oil and gas development has had on subsistence. The study found that although an expanding wage economy has increased income on the North Slope, subsistence activities are still an important part of the local economy and continue to play an important social and cultural role in North Slope communities.

482. Microfiche Luton

Luton, H.H. *Wainwright, Alaska: The Making of Inupiaq Cultural Continuity in a Time of Change.* Microfiche. Ann Arbor, MI: University Microfilms International, 1986.

This dissertation describes the way of life of the Inupiat people of Wainwright, Alaska and the impact oil and gas development is having on the traditional culture and subsistence economy.

483. PAM 1987-273

Matthews, D. "Living on Alaska's North Coast" *Lamp* 69, no. 4 (Winter 1987): 20-25.

This article, which appears in Exxon Corporation's company magazine, describes the people and the land of the Arctic National Wildlife Refuge. The Inupiat people of Kaktovik, the Porcupine Caribou Herd, and the landscape and wildlife resources of the Refuge are all described.

484. PAM 1986-261

Meeker, J.W. "The People Who Read the Day: Subsistence and Durability". *Wilderness* 50 , no. 174 (Fall 1986): 29-32, 44-45.

This article describes the subsistence lifestyle of the Gwich'in and Inupiat people and their dependence on Porcupine Caribou Herd.

485. PAM 1980-264

Rieive, R.R. *Interactions Between Wildlife, Trapper-Hunters and Seismic Lines in the Mackenzie Valley Region, NWT, Canada. Part II: Fort McPherson.* Environmental Studies (Canada Indian and Northern Affairs Canada), no. 12. Ottawa, ON: Northern Affairs Program, 1980.

The report examines seismic line usage in the Mackenzie Delta area near Fort McPherson. Although many animals may feed or travel for short distances along seismic lines, the study found that seismic lines did not cause an increase in wildlife populations. The use of seismic lines by trappers and hunters varied a great deal from area to area.

486. 979.879 87 Steph 1988

Stephen R. Braund and Associates. *North Slope Subsistence Study: Wainwright.* Social and Economic Studies: Technical Report. Anchorage, Alaska: Stephen R. Braund and Associates, 1989.

This report provides a comprehensive description of the subsistence economy of the Inupiat people of Wainwright, Alaska. Detailed information is included on subsistence harvest by species and on the onshore and offshore areas used by Wainwright residents. A description of the seasonal round is also included, along with a description of the harvest of marine mammals, fish, and birds. An appendix lists the English, Inupiat, and Latin names of all animal species used by the Wainwright Inupiat.

487. 979.879 87 Step

Stephen R. Braund and Associates. *North Slope Subsistence Study, Barrow*. 1987-1988 (2 vols). *Social and Economic Studies : Technical Report* Anchorage, Alaska: Alaska OCS Region, 1988-1989.

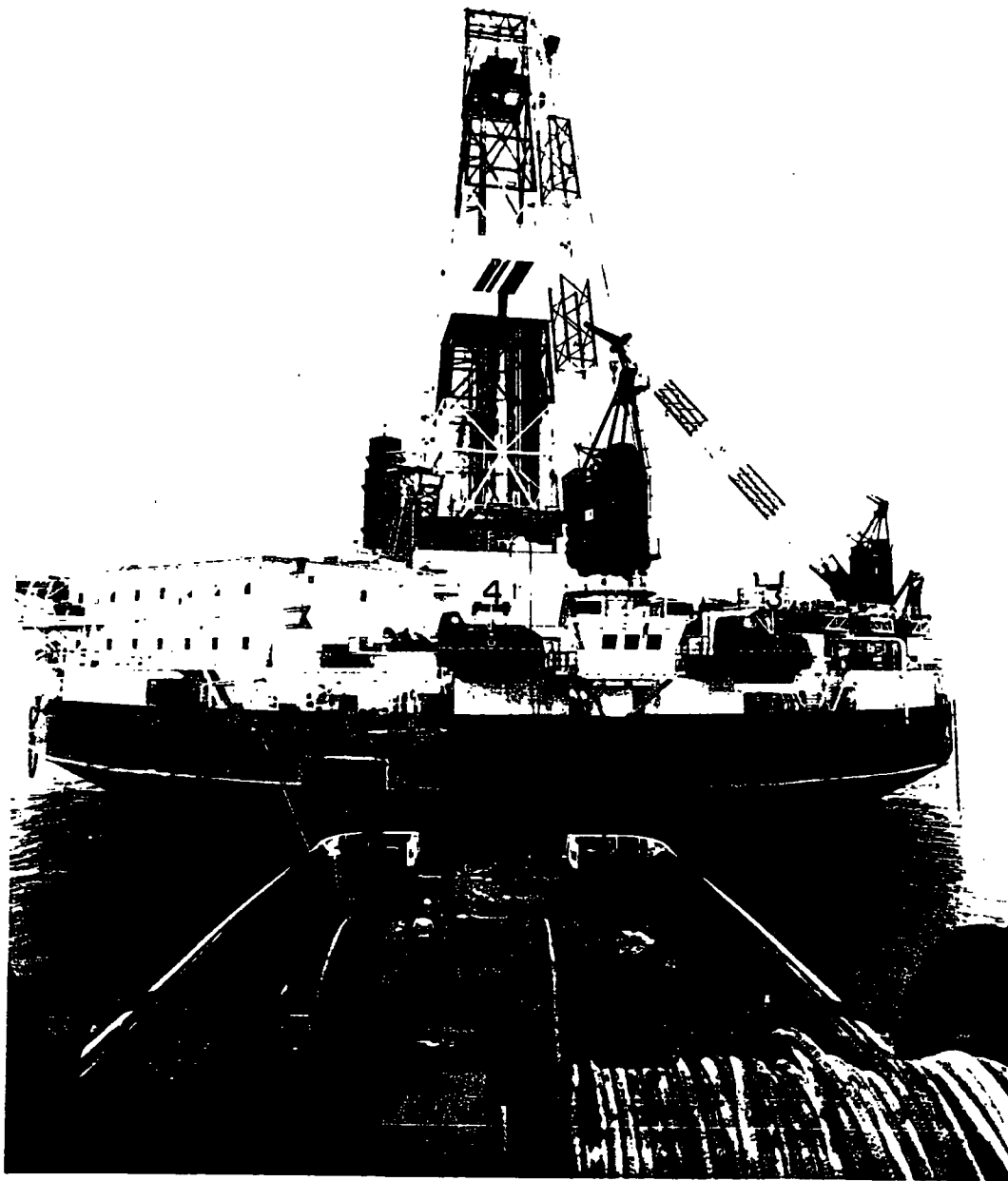
This study reports on the findings of a multi-year study of the subsistence economy of the Inupiat of Barrow, Alaska. Detailed information is included on the many species of animals utilized by the local Inupiat, including harvest dates, size, and sites. Illustrated with detailed maps, charts, and graphs.

488. PAM 1992-222

Yukon Territory. *Arctic National Wildlife Refuge*. Whitehorse, Yukon: Government of Yukon, 1992.

This brochure describes the subsistence lifestyle of the Vuntat Gwich'in people of Old Crow and their relationship with the Porcupine Caribou herd.

# PETROLEUM INDUSTRY AND TECHNOLOGY



YA/MOGAP COLLECTION  
#88/13. #10

Exploration and Operations:

489. Periodical

*Beaufort*. vol. 1, no. 1 (Aug 1981) - vol. 2, no. (Dec 1982). Calgary, Alta: Dome Petroleum Ltd., 1981-1982.

This journal was originally published by Dome Petroleum Ltd. and later jointly between Dome Petroleum, Esso Resources Canada Ltd., and Gulf Canada Resources Inc. Topics covered include overviews of production plans for the 1980s, descriptions of offshore petroleum technology and pipelines, and wildlife in the Beaufort region.

490. 979.8 Ro

Adelman, M.A. "The Alaska North Slope Discoveries and World Petroleum Supplies and Costs." In *Change in Alaska: People, Petroleum, and Politics*, 23 - 40. College, Alaska: University of Alaska Press, 1970.

This article describes the economics of the Prudhoe Bay oil fields. Comparisons are made between this discovery and other oil fields around the world.

491. 333.823 05 Arc

APOA/CPA-ODD Workshop. *Proceedings of the Annual APOA-CPA/ODD Workshop, Fairmont, BC. 1984-1985* (2 vols). Calgary, Alta: Arctic Petroleum Operators' Association, 1984-1985.

492. 551.468 7 Rep vol. 7

Beaufort Sea Steering Committee. Task Group #6. *Operating Seasons: A Report Prepared on Behalf of the Canadian Petroleum Association*. Ottawa, ON: Indian and Northern Affairs Canada, 1991.

This report discusses the regulations for oil well operation in the Beaufort Sea. Information is included on the risk of blowouts in the Beaufort Sea, drilling systems used in the Beaufort, and many other aspects related to oil company operations. Specific drilling units, such as the Kulluk, are described in appendices.

493. Periodical

Brooks, D., and D.A. Wake. "Black Gold: The Beaufort Oil Rush" *Northern Perspectives* 8, no. 6 (1980)

This issue is devoted to oil exploration in the Canadian Beaufort Sea. The first article outlines the costs of production and the conditions that need to be present to make oil and gas production in the Arctic profitable. The second article is mainly excerpted testimony from a defamation trial brought against CBC reporter Larry Saunders by Maurice Thomas, Regional Oil and Gas Conservation Engineer, Department of Indian and Northern Affairs.

494. PAM 1977-361

Canada. Environmental Protection. Renewable Resources Management Branch. *Environmental Impact Assessment, Taglu Gas Development Project Executive Summary*. Ottawa, ON: Minister of Indian and Northern Affairs, 1977.

This report contains the executive summary of the environmental impact assessment of the Taglu Gas Development project proposed for the Mackenzie Delta in the 1970's. Information is included on the proposed development, the environment of the delta, environmental impacts associated with the project, and recommendations for mitigative measures.

495. 553.28 Fro

Canada. National Energy Board. *Frontier Lands: Released Information: (Geophysical/Geological, ESRF, Well Histories)*. Sept. 1991-  
Calgary, Alta.: National Energy Board, 1991-

These publications include listings of geophysical and geological reports on frontier exploration in Canada, including the Beaufort Sea and Mackenzie Delta.

496. 351.823 88 Can-PRG

Canada. Public Review of the Gulf Canada Resources Ltd. Kulluk Drilling Program. *Public Review of the Gulf Canada Resources Ltd. Kulluk Drilling Program, 1990-1992*. Inuvik, NWT: Environmental Impact Review Board, 1990.

497. 338.76 CIGO

Canadian Industrial Gas and Oil Ltd. *Annual Report*. 1969-1972. Calgary, Alta: The Company, 1969-.

These reports describe Canadian Industrial Gas and Oil Ltd's operations, including information on exploration, production, finances, and other aspects of their operations.

498. 338.76 COP

Canadian Occidental Petroleum Ltd. *Annual Report*. 1971-1972 (2 vols). Calgary, Alberta: The Company, 1971-

499. 338.76 CanPet

Canadian Petroleum Association. *Annual Report*. 1987- . Calgary, Alta: The Association, 1987-

These reports describe the annual operations of the petroleum industry in Canada, including information on exploration, production, drilling, and other oil and gas activities in Canada.

500. 338.76 Canad

Canadian Superior Oil Ltd. *Annual Report*.  
1968-1972. Calgary, Alta: The Company,  
1968-1972.

These reports describe Canadian Superior Oil  
Ltd's annual operations, including information on  
exploration, production, finances.

501. 622.159 2 Rep

Challenger Surveys & Services Ltd. *Report on  
Seismic Survey Positioning: CCGS Nahidik and R/V  
Karluk, Beaufort Sea--1987*. Ottawa, ON:  
Geological Survey of Canada, 1988.

502. 508.311 3 Arct 1988 Spring

Cohen, H.K. "12th Annual Review of Hydrocarbon  
Developments in the Beaufort Sea." In *Arctic  
Research of the United States, Spring 1988*,  
55-57.

Covers exploration and development of Beaufort  
oil resources, plans to develop the Amauligak and  
Bent Horn finds, as well as exchanges of  
information on Arctic research and environmental  
concerns.

503. PAM 1991-189

Conn, R.F. *Natural Gas Resource Assessment and  
Economic Potential of Undiscovered Natural Gas  
Resources of the Mackenzie Delta-Beaufort Sea*.  
Ottawa, ON: Energy Mines & Resources, 1991.

This article describes the economic potential of  
petroleum and natural gas resources in the  
Mackenzie Delta and Beaufort Sea. The article  
concludes that there are enough undiscovered  
resources in the area to justify development and  
that the price would be the most important  
determining factor.

504. PAM 1984-214

Cottrill, A. "[Beaufort Sea]" *Offshore Engineer*  
(December 1984): 24-31.



505. PAM 1985-245

Cottrill, A. "Arctic Alaska--Ever More Variety Amid the Pack Ice " *Offshore Engineer* (October 1985): 58-67.

This article provides an overview of oil and gas exploration and production activities in the Alaskan Beaufort Sea and Arctic Alaska in 1985.

506. PAM 1983-228

Cottrill, A. "Arctic Review: Beaufort Pioneers Pile on Pressure As Production Looms " *Offshore Engineer* (January 1983): 29-33.

507. PAM 1985-156

Cottrill, A. "Beaufort Highlights" *Offshore Engineer* (April 1985)

This article provides an overview of oil and gas activities in the Beaufort in 1985. Information is included on the activities of Sohio/Exxon, Gulf Canada, Dome, and Esso in the Beaufort region.

508. PAM 1979-304

Cottrill, A. "Dome Aims At Oil From Arctic Waters By 1985" *Offshore Engineer* (December 1979): 40-45, 49-52.

This article provides an overview of Dome Petroleum's research and development activities in the Beaufort Sea in 1979. Information is included on all aspects of Dome's operations in the Beaufort.

509. PAM 1987-268

Cottrill, A. "Esso's Ice Island Shows How Arctic Life Goes On" *Offshore Engineer* (January 1987): 42-48.

Esso's construction of an artificial island, litigation as a result of a spill at Minuk, and work on Amauligak are some of the topics discussed.

510. PAM 1981-217

Cottrill, A. *North American Arctic Review: An Offshore Engineer Arctic Supplement*. [London, Eng.]: Offshore Engineer, 1981.

This special issue of *Offshore Engineer* features the Arctic oil industry, including a great deal of information on the Beaufort Sea. Artificial islands, Canadian activities, and marine transportation are discussed in separate sections of the issue. Illustrated with photographs, drawings and maps.

511. 553.28 Cror

Crory, F.E. *Construction Guidelines For Oil and Gas Exploration in Northern Alaska*. Washington, DC: U.S. Army Corps of Engineers, 1991.

This report provides guidelines for construction activities associated with oil and gas exploration on the Alaskan North Slope. These guidelines are intended for use by both the oil and gas industry and for federal agencies responsible for administering petroleum explorations on federal land in Alaska north of 60. Provides information on the physical environment along with practical information on working in an extremely cold environment. Topics covered include soils and bedrock, climate, tundra and permafrost, winter roads, design and construction of roads, airfields, and drill pad and site abandonment.

512. 622.338 Pet

Dixon, J. *Petroleum Resources of the Mackenzie Delta-Beaufort Sea*. GSC Open File, no. 1926. Ottawa, ON: Geological Survey of Canada, 1988.

This report presents revised estimates of petroleum reserves in the Beaufort Sea and Mackenzie Delta Region in 1988. These estimates are based on a basin analysis done by scientists from the Geological Survey of Canada and the Canadian Oil and Gas Lands Administration. Four groups of reserves were described, including Onshore and Shallow Offshore, Offshore Delta, West Beaufort and Deep Water/Other. The quantity of oil and gas expected to be found in each of these groups is estimated and tabulated and resources of current interest are identified.

513. PAM 1988-142

Doig, I.M. "Amauligak Poised to Become Lead Development in Beaufort " *Ocean Industry* 23, no. 8 (August 1988): 27-30.

This article provides an overview on the Amauligak field with information on reserve estimates, technical data and drilling activity to date. The article also describes the infrastructure necessary for developing the field and the political obstacles that oil companies face in getting projects approved.

514. PAM 1990-179

Doig, I.M. "Canada: Little Progress on Frontier Area Projects" *Ocean Industry* 25, no. 6 (1990): 42-44.

This article describes the downturn in oil and gas activities in Canadian offshore areas including the Beaufort Sea and the Hibernia/Terra Nova fields. In the Beaufort, this downturn is attributed to high production costs, environmental concerns, and lowered estimates of reserves in the Amauligak field.

515. 338.766 55 Dome

Dome Petroleum Ltd. *Beaufort Sea Operations Evaluation*. 1980-1981 (2 vols). Calgary, Alta: Dome Petroleum Ltd., 1980-1981.

These reports provide a detailed description of Dome Petroleum's Beaufort Sea operations for 1980 and 1981. Information is included on exploration, drilling, dredging, transportation, artificial islands, oil spill research and wildlife monitoring.

516. 380.102 5 North 1982

Dome Petroleum Ltd. *Northern Business Directory: Companies Offering Services to the Beaufort Petroleum Industry*. Inuvik, NWT: Dome Petroleum Ltd., 1982.

This directory includes information on northern businesses that offered services to the oil and gas industry in the Canadian Beaufort Sea. Businesses are listed by geographic region, sector, and contact name.

517. PAM ND-666

Dome Petroleum Ltd. *Progress in the Beaufort*. Calgary, Alberta: Dome Petroleum Ltd., n.d.

Promotional material on Dome Petroleum's operations showing environmental impacts, socio-economic impacts, drilling technology, oil spill countermeasures, dredging and offshore construction, and employee training and development. The package also includes several brochures on such subjects as the Beaufort Sea/Mackenzie Delta Environmental Impact statement, Dome's air transportation system, and ice breakers.

518. 971.9 Fra

Frankling, F.T. *Northern Hydrocarbon Development in the Nineties: A Global Perspective*. Ottawa, ON: Carleton University, Geotechnical Science Laboratories, 1989.

This report contains the proceedings of a conference held in Yellowknife, N.W.T. and Calgary, Alberta in 1988. A number of broad topics were discussed at the conference including managing development, northern hydrocarbon potential, environmental issues, finance and trade issues.

519. 551.31 Int 1984 vol. 4

Frederking, R.M.W. "Exploration and Production Concepts and Projects For the Arctic Offshore." In *IAHR Ice Symposium 1984, Proceedings, Vol. IV*, 387-414. Hamburg, Germany: Ice Engineering Dept., Hamburgische Schiffbau-Versuchsanstalt GmbH, 1984.

This article provides a brief overview of ice and how ice features effect offshore oil and gas exploration in the Arctic.

520. PAM 1985-247

Goodfellow, R. "Arctic Operations." In *Arctic Underwater Operations: Medical and Operational Aspects of Diving Activities in Arctic Conditions*, 271-282. London: Graham & Trotham, 1985.

This article describes offshore oil and gas operations in the Canadian Arctic and Beaufort Sea. Information is included on artificial islands, ice pads, caissons, and drillships.

521. 338.76 Gulf

Gulf Canada Resources Ltd. *Annual Report*. 1985-1989. Calgary, Alta: The Company, 1985 -.

These reports describe Gulf Canada's annual operations including information on exploration, production, finances.

522. PAM ND-668

Gulf Canada Resources Ltd. *The Northern Challenge: The Search For Oil and Gas in the Beaufort Sea and Mackenzie Delta.* Calgary, AB: Gulf Canada Resources Ltd., n.d.

This pamphlet provides an overview of the Gulf Canada Resources, Ltd. 's operations in the Beaufort Sea. Included are short articles on the potential of the North, Gulf's sensitivity to the concerns of northerners, as well as a history of hydrocarbon exploration in the area.

523. 551.468 7 Bea 1985

Han-Padron Associates. *Beaufort Sea Petroleum Technology Assessment.* OCS Study, no. MMS-85002. Anchorage, AK: Alaska OCS Region, 1985.

This report contains the results of a study of the petroleum technology used in the Diapar Field Sale 8-97 area of the Alaskan Beaufort Sea. The study evaluates technology associated with exploration, production, and transportation of crude oil reserves from the multi-year ice zone of the Beaufort Sea.

524. 338.76 Imp

Imperial Oil Ltd. *Annual Report.* 1975, 1977, 1981-1985, 1987-1988 (10 vols). Toronto, ON: The Company, 1975-.

525. 620.911 1 ARC

Institute of Ocean Sciences (Sidney, B.C.). *Arctic Industrial Activities Compilation.* 3 vols. Canadian Data Report on Hydrography and Ocean Sciences, no. 32. Sidney, BC: Institute of Ocean Sciences, 1985-1988.

526. PAM 1988-166

Janson, I.W. "In Search of Hydrocarbons in the Canadian Arctic From Artificial Islands" *World Dredging and Marine Construction* 24, no. 4 (April 1988): 14-22.

This article describes Dome Petroleum's experiences designing and building artificial islands in the Canadian Beaufort Sea. The physical setting of the Beaufort is described along with information on construction season, environmental conditions, and research and design of artificial islands. Illustrated with photographs, drawings, maps and charts.

527. 333.7 CARC 1983

Lee, J.E. "Project Management Philosophy in Canadian and Northern Settings." In *National and Regional Interests in the North: 3rd National Workshop on People, Resources and the Environment North of 60, Yellowknife, NWT, 1-3 June 1983*, 665-693. Ottawa, ON: Canadian Arctic Resources Committee, 1984.

This paper describes Esso Resource's project management philosophy for northern projects.

528. Microfiche LGL

LGL Ltd. *An Evaluation of the Effects on Terrestrial Wildlife and Freshwater Fish of the Proposed Development of A Shorebase Support Facility, A Rock Quarry and Associated Roads in the Yukon North Slope*. Microfiche. Calgary, Alberta: Dome Petroleum, 1982.

529. 351.823 27 Loken

Loken, O. *Report on A Visit to the North Sea Area*. Ottawa, ON: Department of Indian Affairs and Northern Development, 1982.

530. PAM 1988-164

March, D. "Arctic Engineering For Offshore Resources: Observations From the Canadian Beaufort Sea and of Iceworthy Vessel Research" *Underwater Technology* 14 , no. 4 (1988): 29-35.

This report describes Gulf Canada Resources development of their Amauligak prospect in the Beaufort Sea. The report describes the equipment used and the design of similar equipment in test facilities.

531. 333.7 CARC 1983

McInnes, S. "Mackenzie Delta-Beaufort Sea: Their Roles in Canada's Oil Supply Options." In *National and Regional Interests in the North: 3rd National Workshop on People, Resources and the Environment North of 60, Yellowknife, NWT, 1-3 June 1983*, 695-705. Ottawa, ON: Canadian Arctic Resources Committee, 1984.

This paper discusses the role of Beaufort Sea and Mackenzie Delta oil in Canada's energy supply. Potential reserves and anticipated production problems are outlined. It concludes that uncertainty will continue to have a major influence on future developments in the Beaufort region.

532. 559.8 Inte 1981

Meyerhoff, A. "Hydrocarbon Resources in Arctic and Subarctic Regions." In *Arctic Geology and Geophysics: Proceedings of the Third International Symposium on Arctic Geology*, 451-552. Calgary, Alberta: Canadian Society of Petroleum Geologists, 1982.

This article provides a comprehensive overview of hydrocarbon resources in the circumpolar Arctic and Subarctic. Illustrated with maps and diagrams.



533. PAM 1988-150

Mudie, P.J., S.M. Blasco, and H.R. Jackson.  
*Ocean Drilling Program Proposal For Arctic Ocean Drilling.* Dartmouth, NS: Atlantic Geoscience of Canada, 1988.

This proposal outlines the need for Arctic undersea drilling to further understand the history of the Arctic Ocean. Cores would be studied for biological and sediment data in order to understand how the ocean floor evolved. Operational considerations, background information, objectives, safety concerns and special requirements are outlined for each proposed drilling site.

534. Ref 338.209 71 Canh

Northern Miner Press. *Canadian Oil and Gas Handbook.* 1985/86-1991. [Toronto, Ont.]: Northern Miner Press, 1985-1991.

These handbooks provide information on the petroleum industry since 1986. Each year a company list provides basic details--earnings, financial data, and current address. Also provided is information on government agencies and departments (federal, provincial/territorial) and associations active in the industry.

535. Ref 338.272 820 Can 1993

PennWell Pub. Co. *Canadian Oil Industry Directory.* Tulsa, Oklahoma: PennWell Books, 1993.

This directory includes comprehensive information on all facets of the Canadian petroleum industry. Exploration and production, pipeline operation, and engineering are a few of the topics covered.

536. Ref 338.272 805 Int

PennWell Pub. Co. *International Petroleum Encyclopedia.* 1992-1993 (2 vols). Tulsa, OK: PennWell Publishing Co., 1968 -.

537. 338.76 Petro

Petro Canada Ltd. *Annual Report*. 1978-1979, 1981-1992. Calgary, Alberta: Petro Canada, 1978-.

These reports describe Petro Canada's annual operations, including exploration and production, marketing, finances and yearly initiatives.

538. Ref 338.272 802 1 Oil

Petzet, G.A. *Oil and Gas Journal Exploration Index*. Tulsa, Oklahoma: PennWell Pub. Co., 1992.

This book indexes articles that appeared in the exploration section of the *Oil and Gas Journal* between 1960 to 1991. Includes geographic and subject indexes.

539. PAM 1988-149

R.A. Owens Environmental Services Ltd. *Petroleum Related Activity and Resource Potential Within the Beaufort Sea-Mackenzie Delta Land Use Planning Area*. S.l.: Owens Environmental Services Ltd., 1988.

Proposals for pipelines and marine transport of petroleum are outlined along with exploration activity. The land use requirements for many of the activities of the petroleum industry are discussed.

540. PAM 1990-179

Rintoul, B. "California/Alaska: All's Quiet on the Western Front" *Ocean Industry* 25, no. 6 (August 1990): 37-41.

This article contains an overview of current and planned oil development in the Alaskan Beaufort and Chukchi Seas, as well as specific activities in the Camden Bay.

541. PAM 1991-188

Saunders, A. "Beaufort Blues Again " *Arctic Circle* 1, no. 5 (March/April 1991): 14-23.

This comprehensive article discusses the possible future of oil and gas development in the Canadian Beaufort Sea. The article focuses on a recent Environmental Impact Review Board decision that recommended against approval of Gulf Canada's Kulluk drilling program. It also analyzes the shortcomings of oil companies' environmental disaster contingency plans and warns of the catastrophic impact a blowout could have on the local environment. The article also discusses the Inuvialuit, Dene, and Metis land claims agreements and the mechanisms by which the region's aboriginal people could take a more active role in future oil and gas development.

542. PAM 1989-208

Solem, E. "Arctic Resources and Their Development" *Petroleum Review* (October 1989): 527-529.

This article provides a brief overview of the history of oil and gas development in the Beaufort Sea and potential development in the Canadian Arctic. A discussion is included on the environmental and socio-economic concerns associated with oil development in the North stressing the importance of developing environmentally sound production practices.

543. 620.416 32 Pol 1990

Thomas, T.J. and B.D. Wright. "An Operating Review of Molikpaq and Kulluk Activities in the Beaufort Sea." In *Polartech '90: International Conference on Development and Commercial Utilization of Technologies in Polar Region: Proceedings*, 351-375. Horsholm, Denmark: Danish Hydraulic Institute, 1990.

This paper describes the use of Gulf Canada's BeauDril equipment at two well sites in the Beaufort Sea. Information is included on the designs of the Kulluk and Molikpaq rigs and their use in both the Canadian and Alaskan Beaufort Seas.

544. Microfiche Oilweek

Trollope, F. "Beaufort Has Most Allure" *Oilweek* 39, no. 46 (December 5, 1988): 5 - 6.

This brief article describes recent oil and gas discoveries in the Beaufort Sea-Mackenzie Delta region. Information on the type of wells, estimated reserves, and locations of major discoveries are provided.

Pipelines:

545. 551.468 7 Bea vol. 4

Beaufort Sea Environmental Assessment Panel.  
*Beaufort Sea Environmental Assessment Panel  
Submissions, No. 4, Environmental  
Effects--Pipeline Corridor, 1983.*

This volume contains two submissions related to a proposed pipeline from the Beaufort Sea down the Mackenzie Valley corridor. The first submission from the Canadian Forestry Service critiques the pipeline proposal included as part of the Environmental Impact Statement. The Forestry Service suggests that the proposal was vague and sketchy and did not adequately address such concerns as thawing of permafrost, river crossings, and other technical concerns related to pipeline construction in the North. The second submission includes information on pipeline construction from an unknown source.

546. PAM 1988-141

Bruschi, R. "Double Pipe Ensures Reliable Insulation of Offshore Pipelines" *Journal of Energy Resources Technology* 110, no. 2 (June 1988): 59-67.

547. 621.967 2 Bur

Burgess, M.M., and J.A. Naufal. *Norman Wells Pipeline Monitoring Sites Ground Temperature Data File: 1987.* Ottawa, ON: Geological Survey of Canada, 1988.

This volume reports on the monitoring of temperature along the route of the Norman Wells Pipeline. The monitoring program is designed to study the effects of the construction and operation of the Norman Wells pipeline on permafrost and terrain conditions and to evaluate the approaches used to minimize terrain disturbance. The bulk of the report consists of temperature data from monitoring sites.

548. PAM 1991-301

Clark, J.I. *Design For Safety in Northern Waters*. C-CORE Publication, no. 92-4. St. John's, Nfld: Centre For Cold Oceans Resource Engineering, 1992.

The main focus of the paper is on the problems associated with construction in ice scoured terrain associated with permafrost.

549. PAM 1978-301

Fox, R. "Pipelines, Parks and the Porcupine Caribou" *Sierra Club Bulletin* 63 (1978): 18-21.

This short article debates the merits of building a pipeline along the Alaska Highway or the Mackenzie Valley and raises concerns over the impact such a pipeline would have on the Porcupine Caribou Herd. The article also discusses a proposed international park or wildlife refuge that would encompass most of the Porcupine Caribou Herd's range.

550. 622.338 Nor

Interprovincial Pipe Line (NW) Ltd. *Norman Wells Pipeline Project: Report on Monitoring of Construction and Operation*. 4 vols. Calgary, Alberta: Interprovincial Pipe Line (NW) Ltd., 1982-.

Monitoring was done to determine the effects of pipeline construction and operation on the environment, the condition of the right-of-way, including river crossings, slopes, and pipeline. The reports include information on pipeline conditions, and the results of studies monitoring terrain, aquatic environments, revegetation, raptor and wildlife populations along the pipeline corridor.

551. 620 Perm

MacInnes, K.L., M.M. Burgess, and D.G. Harry. *Permafrost and Terrain Research and Monitoring: Norman Wells Pipeline*. 2 vols. Environmental Studies (Canada. Indian and Northern Affairs Canada), no. 64. Ottawa, ON: Indian Affairs and Northern Development, 1989.

This two volume report reviews the environmental and engineering considerations of the Norman Wells Pipeline as well as the construction and operation of this pipeline from 1983 to 1988.

552. 388.56 068 MacKen

Mackenzie Delta Gas Export Project. *Application to the National Energy Board For a License to Export Natural Gas From the Mackenzie Delta to the United States of America*. 3 vols. Calgary, AB: National Energy Board, 1989.

553. PAM 1990-232

Skafel, M.G., and C.T. Bishop. "Wave Forces on a Pipeline in a Trench" *Canadian Journal of Civil Engineering* 17, no. 4 (1990): 503-508.

554. 621.867 2 Sotb

Sotberg, T. *Application of Reliability Methods For Safety Assessment of Submarine Pipelines*. Trondheim, Norway: Norwegian Institute of Technology, Division of Marine Structures, 1990.

555. 622.338 Tray

Traynor, S. *Geological Investigations of Proposed Pipeline Channel Crossings in the Vicinity of Taglu and Niglintgak Islands, Mackenzie Delta, NWT.* Environmental Studies Research Funds Report, no. 116. Calgary, Alta: Environmental Studies Research Funds, 1992.

This report reviews information on the geological and geotechnical conditions at two proposed development sites near the Taglu and Niglintgak Islands in the Mackenzie Delta. Pipeline channel crossing sites are evaluated based on information about the channel's stability over a 20 to 35 year period. First, the report provides an overview of the general physical settings, climate, and geology of the Mackenzie Delta. Then the report describes the landforms, vegetation, bank stability, ice conditions and other characteristics of the Taglu and Niglintgak sites. The study concludes that special consideration must be given to the location of shallow permafrost when designing pipeline crossings across channels.

556. 979.805 Wick

Wickware, P. *Crazy Money: Nine Months on the Trans-Alaska Pipeline.* New York, NY: Random House, 1979.

This book, written by a welder, provides a down-to-earth account of the building of the Trans-Alaska Pipeline. The logistics of working on the pipeline, the role of the union, women workers, industrial accidents, and the social impact of the pipeline on Alaska are some of the topics covered by the author.



557. 551.343 C1a

Workshop on Ice Scouring and the Design of Offshore Pipelines (1990 : Calgary, Alta). *Ice Scouring and the Design of Offshore Pipelines: Proceedings, Calgary, Alberta, April 18-19, 1990.* Calgary, Alberta: Energy Mines and Resources Canada, 1990.

This volume contains the proceedings of a workshop on ice scouring and offshore pipeline held in Calgary, Alberta in 1990. Technical papers were presented on ice scour processes, technology for underwater pipeline construction, and other topics related to pipeline design in cold waters.

**Technology:**

558. 627.98 State 1991

ACI Committee 357. *State-of-the Art Report on Offshore Concrete Structures For the Arctic*. Detroit, MI: American Concrete Institute, 1991.

559. 627.98 Ally

Allyn, N. , W.J. Cichanski, and P. Adebar *Verification of CSA Code For Fixed Offshore Concrete Structures*. Environmental Studies Research Funds Report, no. 112. Calgary, Alberta: Environmental Studies Research Funds, 1992.

This technical book discusses building and safety codes for concrete offshore structures.

560. 551.31 Int 1984 vol. 1

Andersen, P.F. "Ice Management For Beaufort Sea Production Harbours." In *IAHR Ice Symposium 1984, Proceedings, Vol. I*, 303-314. Hamburg, Germany: Ice Engineering Dept., Hamburgische Schiffbau-Versuchsanstalt GmbH., 1984.

This article describes a method for maintaining open water for ice bound harbours in the Beaufort Sea. The technical aspects of the system are described, including information on ice theory.

561. 387.54 ARC vol. 1

ARCTEC Engineering, Inc. *Arctic Deployment of USCGC Polar Sea, Winter 1983, vol. 1, Executive Summary*. Springfield, VA: NTIS, 1983.

This executive summary gives an overview of the data collected on the USCG Polar Sea during the period from March to May, 1988. This was the fifth phase of a multi-year project to make an operational assessment of the feasibility of year-round ship traffic in the Arctic. Environmental data, such as ice cores and weather, were collected and summarized here. The raw data were available from other volumes in the series. This report provides a project overview and summary.

562. 629.045 Bea

ARCTEC Engineering, Inc. *Beaufort Sea Data Collection: Multiyear Ice Research Aboard USCGC POLAR SEA, November 11-December 4, 1984.* Springfield, Vir: NTIS, 1985.

563. 387.54 Ice Con 1990

ARCTEC Engineering, Inc. *Ice Forces and Ship Response to Ice: Consolidation Report.* Springfield, Vir : NTIS, 1990.

This report presents the results and final analysis of ice load measurements conducted aboard the USCGC Polar Sea. The deployments measured impacts with ice in the Beaufort Sea and the data collected established hull strength requirements and load limits for ships deployed in the Arctic and Antarctic oceans.

564. 387.54 Ice 1990

ARCTEC Engineering, Inc. *Ice Loads and Ship Response to Ice: A Second Season.* Springfield, Vir: NTIS, 1990.

This report documents ice impact data in an attempt to measure strain and pressure on a ship's hull in the Beaufort Sea. A panel of sensors was placed on the hull of the ship and ice impacts were measured for force and pressure. The results are expected to help in designing arctic vessels and to help set load limits for ships deployed in the Arctic.

565. 665.5 Manu

ASTM Committee D-2 on Petroleum Products and Lubricants. *Manual on Hydrocarbon Analysis.* 5th ed. ASTM Manual Series, MNL 3. Philadelphia: ASTM, 1992.

This volume provides a comprehensive overview of current practices and tests relating to hydrocarbon analysis.

566. Microfiche Bala

Bala, S.R. *Research on Materials For Offshore Structures and Arctic Vessels: Steels.* Welding Institute of Canada Report, no. RC 307/1/ 89. Toronto, ON: Micromedia, 1989.

567. 620.416 2 Port 1988 vol. 1

Birdy, J.N. and I.B. Booz. "Reliability Assessment of a Prestressed Concrete Arctic Offshore Platform." In *Port and Ocean Engineering Under Arctic Conditions, Vol. 1*, 367-386. Fairbanks, Alaska: Geophysical Institute, University of Alaska, Fairbanks, 1988.

This article evaluates the reliability of an offshore concrete platform designed for the Beaufort Sea. Changes to the design necessary to achieve a more reliable structure are also identified.

568. 551.343 Sar

Canada. Atmospheric Environment Service. Aerospace Meteorology Division. *SAR Sea Ice Classification Workshop: Program and Presentations, December 10 and 11, 1990.* Toronto, ON: Atmospheric Environment Service, 1990.

The workshop presentations cover current research and development on SAR and other radar sensors.

569. 623.828 Cart

Carter, D. *Results of Comparative Model Tests With a Conceptual Hull Form and the Original R-Class Icebreaker.* Montreal: Transport Development Centre, 1990.

This technical report contains the results of a test program designed to compare the efficiency of a new concept of icebreaking bow to the performance of the original R-Class.

570. PAM 1989-229

Duckworth, R., and P.H. Westermann. "Stress and Strain Instruments Developed For Field Measurements of Ice" *IEEE Journal of Oceanic Engineering* 14, no. 2 (April 1989): 159-165.

571. PAM 1990-194

EBA Engineering Consultants Ltd. *Modelling of Offshore Temperature Profile, Final Results For Amauligak and Angasak, Beaufort Shelf.* GSC Open File, no. 2227. Edmonton, Alberta: EBA Engineering Consultants Ltd, 1990.

This paper describes a computer modelling study that was undertaken to determine how a drilling platform might affect offshore sediment temperature profiles. When drilling, heat is created and so a predictive model to determine the extent of permafrost degradation or melting during drilling is necessary. Data used in the prediction model was obtained from two well sites in the Beaufort Sea: Angasak and Amauligak. The results are shown in tables and graphs.

572. PAM 1988-174

Goodman, R.H. *Simple Remote Sensing For the Detection of Oil on Water.* Environmental Studies Research Funds Report, no. 098. Calgary, Alberta: Environmental Studies Research Funds, 1988.

Remote sensing systems used in aircraft are an essential part of oil spill response. This report describes a simple remote sensing system that can be used to detect oil on water from aircraft. Sensing techniques and the basic principles of detection are outlined and examples of how the system can be used are given.

573. PAM 1988-172

Greene, C.R., and W.J. Richardson.  
"Characteristics of Marine Seismic Survey Sounds  
in the Beaufort Sea" *Journal of Acoustical  
Society of America* 83, no. 6 (June 1988):  
2246-2254.

This article discusses the results of marine  
seismic surveys in the Beaufort Sea and describes  
the characteristics of seismic sounds collected  
during these surveys.

574. 620.416 2 Port 1988 vol. 1

Gulati, K. "An Integrated Design Approach to  
Arctic Offshore Platforms." In *Port and Ocean  
Engineering Under Arctic Conditions, Vol. I*,  
345-352. Fairbanks, Alaska: Geophysical  
Institute, University of Alaska, Fairbanks, 1988.

This paper discusses state-of-the-art Arctic  
offshore structure design from a designer and  
builder's point of view. Influences on design  
are discussed and designs suitable for various  
water depths in the Arctic are described.

575. 620.416 2 Port 1988 vol. 3

Hayley, D.W. "Advances in Design and  
Construction of Slope Protection For Gravel  
Islands, Beaufort Sea, Alaska." In *Port and  
Ocean Engineering Under Arctic Conditions, Vol.  
3*, 431-439. Fairbanks, AK: Geophysical  
Institute, University of Alaska, Fairbanks, 1988.

This article describes the design and  
construction of a concrete slope protection  
system for use on gravel islands used by oil and  
gas companies in the Beaufort Sea.

576. 620.411 3 Col 1984

International Cold Regions Engineering Specialty Conference (4th : 1986). *Cold Regions Engineering: Proceedings of the Fourth International Conference, Anchorage, Alaska*. New York, NY: American Society of Civil Engineers, 1986.

This volume contains the proceedings of the Fourth International Specialty Conference on Cold Regions Engineering held in Anchorage, Alaska in 1986. Papers were presented on construction management, pile design, cold region hydrology, thermal and ice regime of rivers, offshore developments and a variety of other topics related to engineering in cold regions.

577. 620.416 2 Int 1992 vol. 4

International Conference on Offshore Mechanics and Arctic Engineering (1992 : Calgary, Alberta). *Proceedings ... Conference on Offshore Mechanics and Arctic Engineering, 1992, Vol. 4, Arctic/Polar Technology*. New York, NY: American Society of Mechanical Engineers, 1992.

578. 620.416 2 Int 1991

International Conference on Offshore Mechanics and Arctic Engineering (10th : 1991 : Stavanger, Norway). *Proceedings of the 10th International Conference on Offshore Mechanics and Arctic Engineering, 1991, Stavanger, Norway*. 7 vols. New York, NY: American Society of Mechanical Engineers, 1991.

Papers were presented on ocean waves, hydrodynamic forces, arctic and polar technology, and a variety of other subjects related to offshore mechanics and arctic engineering.

579. 620.416 2 Int 1990

International Conference on Offshore Mechanics and Arctic Engineering (9th, 1990, Houston, Texas). *Proceedings of the Ninth Conference on Offshore Mechanics and Arctic Engineering, 1990, Houston, Texas.* 4 vols. New York, NY: American Society of Mechanical Engineers, 1990.

580. 620.411 3 Col 1984

International Specialty Conference on Cold Regions Engineering (3rd : 1984 : Edmonton, Alberta). *Northern Resource Development: Proceedings ...* 3 vols. Montreal, Que: Canadian Society For Civil Engineering, 1984.

These volumes contain the proceedings of the Third International Speciality Conference on Cold Regions Engineering held in Edmonton, Alberta in 1984. Technical papers included in this volume cover wastewater treatment, the behaviour of frozen materials, ground thawing, and a variety of other topics related to engineering in cold regions.

581. PAM 1990-234

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